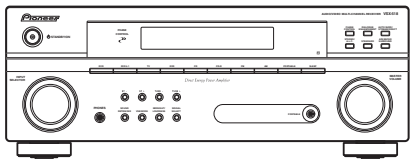
Pioneer sound.vision.soul

Service Manual



VSX-518-K

ORDER NO.
RRV3707

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-518-K
VSX-518-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-518-K	KUCXJ	AC 120 V	
VSX-518-S	KUCXJ	AC 120 V	

For details, refer to "Important Check Points for good servicing".

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ⓒ**PIONEER CORPORATION 2008**

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SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 Ð Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

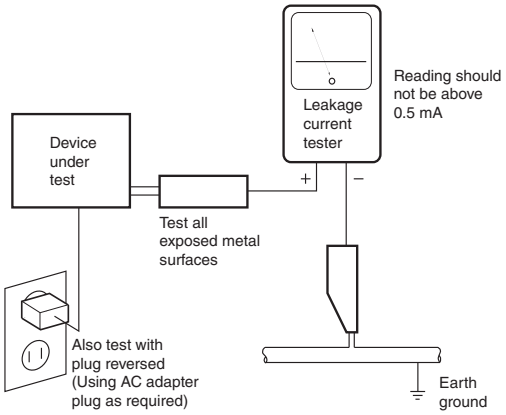
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Reading should not be above 0.5 mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

1.2 AMPLIFIER FAILURE DIAGNOSIS FLOW CHART

■ Amplifier failure diagnosis flow chart

When DC detection is activated ("AMP_ERR" flashes on the display), failure (damage) of the power amplifier section is considered.

Caution:
When releasing the lock state of power key before repair, please be careful because there is the possibility that more damages will occur when turning on the power once again!

- According to a symptom, perform the following confirmation beforehand.

1) Are there any Fuses and IC protectors open?
↓
2) After turn on the power, confirm that the supply voltage of the point that can be measured is appropriate. (Particularly the supply voltage of the power Tr and drive step)
↓
3) Whether the voltage of pin2 and pin5 of IC601 or IC603 is equal to (VL-0.7V). If not (eg, equal to VH), then change the corresponding power pack IC601 or IC603.
↓
4) Furthermore, check the output DC voltage of each channel of power pack IC601 and IC603 to limit the failure channel and identify the defect power pack.

↓
- After identify the failure channel, check that each part is not damaged (resistor, diode... etc. value / open / short)

2. SPECIFICATIONS

2.1 SPECIFICATIONS

Amplifier section

- **Continuous power output (stereo)**

Front. . .95 W (20 Hz to 20 kHz, THD 0.2 %, 8 Ω)[1]

- **Rated power output**
  (surround / 20 Hz to 20 kHz, THD 0.06 %, 8 Ω)

Front. . . . . .95 W per channel
Center . . . . . 95 W
Surround. . . . . .95 W per channel

- **Rated power output**
  (surround / 1 kHz, THD 0.05 %, 8 Ω)

Front. . . . . .120 W per channel
Center . . . . . 120 W
Surround. . . . . .120 W per channel

Audio section

- **Input (Sensitivity/Impedance)**

CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR. . . . . .200 mV/47 kΩ

- **Frequency response**

CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR. . . . .5 Hz to 100 000 Hz $^{+0}_{-3}$ dB

- **Output (Level/Impedance)**

CD-R/TAPE/MD, DVR/VCR . . . . . 200 mV/2.2 kΩ

- **Tone control**

Bass. . . . . .± 6 dB (100 Hz)
Treble. . . . . ± 6 dB (10 kHz)
Loudness. . . . . +10 dB/+5 dB (100 Hz/10 kHz)
(at volume level –50 dB)

- **Signal-to-Noise Ratio (IHF, short circuited, A network)**

CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR. . . . . .96 dB

- **Signal-to Noise Ratio [EIA, at 1 W (1 kHz)]**

CD, CD-R/TAPE/MD, DVD/BD,
TV/SAT, DVR/VCR. . . . . .79 dB

Video Section

- **Input (Sensitivity/Impedance)**

DVR/VCR, DVD/BD, TV/SAT. . . . . 1 Vp-p/75 Ω

- **Output (Level/Impedance)**

DVR/VCR, MONITOR OUT . . . . . 1 Vp-p/75 Ω

- **Frequency response**

DVR/VCR, DVD/BD,
TV/SAT ⇨ MONITOR . . . . . 5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio . . . . . 55 dB
Crosstalk . . . . . 50 dB

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" is a registered trademark of DTS, Inc. and "DTS 96/24" is a trademark of DTS, Inc.

Component video section

- **Input (Sensitivity/Impedance)**

DVD/BD, TV/SAT, DVR/VCR. . . . . 1 Vp-p/75 Ω

- **Output (Level/Impedance)**

MONITOR OUT . . . . . 1 Vp-p/75 Ω

- **Frequency response**

DVD/BD, TV/SAT,
DVR/VCR ⇨ MONITOR . . 5 Hz to 40 MHz $^{+0}_{-3}$dB
Signal-to-Noise Ratio . . . . . 60 dB

FM Tuner Section

Frequency Range . . . . . 87.5 MHz to 108 MHz
Usable Sensitivity . . . . . Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity . . . . . Mono: 20.2 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio . . Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion. . . . . .Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity. . . 60 dB (400 kHz)
Stereo Separation. . . . . 40 dB (1 kHz)
Frequency Response . . . . . 30 Hz to 15 kHz (±1 dB)
Antenna Input (DIN). . . . . .75 Ω unbalanced

AM Tuner Section

Frequency Range . . . . . 530 kHz to 1700 kHz
Sensitivity (IHF, Loop antenna) . . . . . 350 μV/m
Signal-to-Noise Ratio . . . . . 50 dB
Antenna. . . . . .Loop antenna

Miscellaneous

Power requirements . . . . . .AC 120 V/60 Hz
Power consumption . . . . . .280 W
In standby. . . . . 0.5 W
Dimensions
. . . . . 420 mm (W) x 158 mm (H) x 352.5 mm (D)
$16\frac{9}{16}$ in. (W) x $6\frac{1}{4}$ in. (H) x $13\frac{7}{8}$ in. (D)
Weight (without package). . . . 7.9 kg (17 lb 4 oz)

Furnished Parts

Remote control 1
Dry cell batteries (AA size IEC R6) 2
AM loop antenna. 1
FM wire antenna 1
Operating instructions

Note

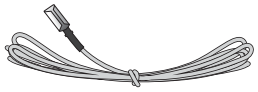
- Specifications and the design are subject to possible modifications without notice, due to improvements.

Note

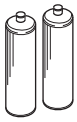
1 Continuous average power output of 95 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.2 %** total harmonic distortion (front).
* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.
** Measured by Audio Spectrum Analyzer.

Accessories

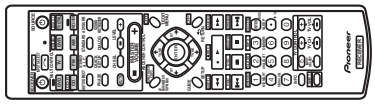
AM loop antenna
(ATB7013)



FM wire antenna
(ADH7030)



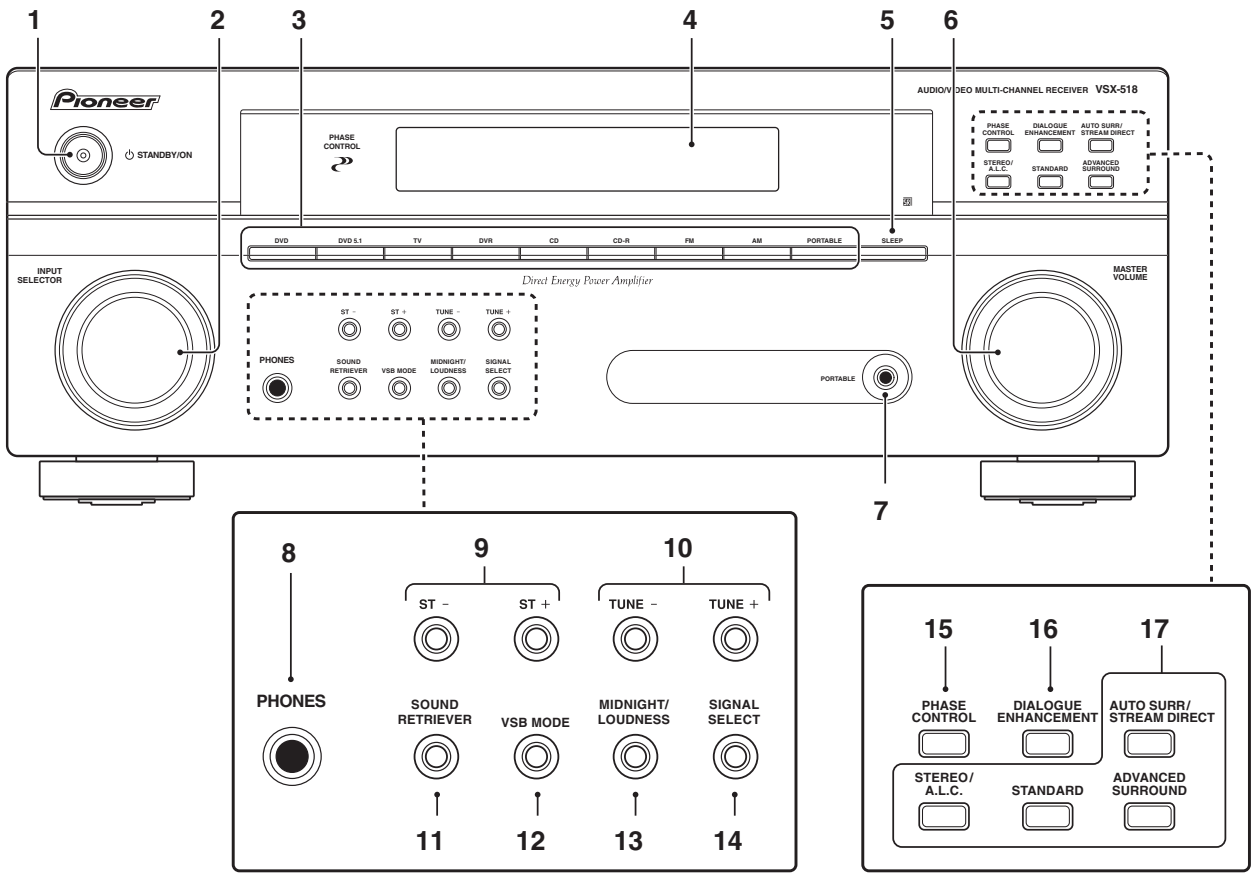
AA size IEC R6
Dry cell batteries (x2)



Remote control
(VSX-518-K : XXD3155)
(VSX-518-S : XXD3165)

2.2 PANEL FACILITIES

Front panel



1 ⏻ STANDBY/ON

2 INPUT SELECTOR dial
Selects an input source.

3 Input select buttons
Selects an input source.

4 Character display

5 SLEEP
Press to change the amount of time before the receiver switches into standby (**30 min – 60 min – 90 min – Off**). You can check the remaining sleep time at any time by pressing **SLEEP** once.

6 MASTER VOLUME dial

7 PORTABLE audio input jack
Connect an auxiliary component using a stereo mini-jack cable.

8 PHONES jack
Use to connect headphones (when connected, there is no sound output from the speakers).

9 ST +/–
Use to select preset radio stations.

10 TUNE +/–
Used to find radio frequencies.

11 SOUND RETRIEVER
Press to restore CD quality sound to compressed audio sources.

12 VSB MODE
Press to switch on/off Virtual Surround Back (VSB) mode.

13 MIDNIGHT/LOUDNESS
Switches to Midnight/Loudness listening.

14 SIGNAL SELECT
Selects an input signal.

15 PHASE CONTROL
Press to switch on/off Phase Control.

16 DIALOGUE ENHANCEMENT
Use to make dialog stand out when watching TV or a movie.

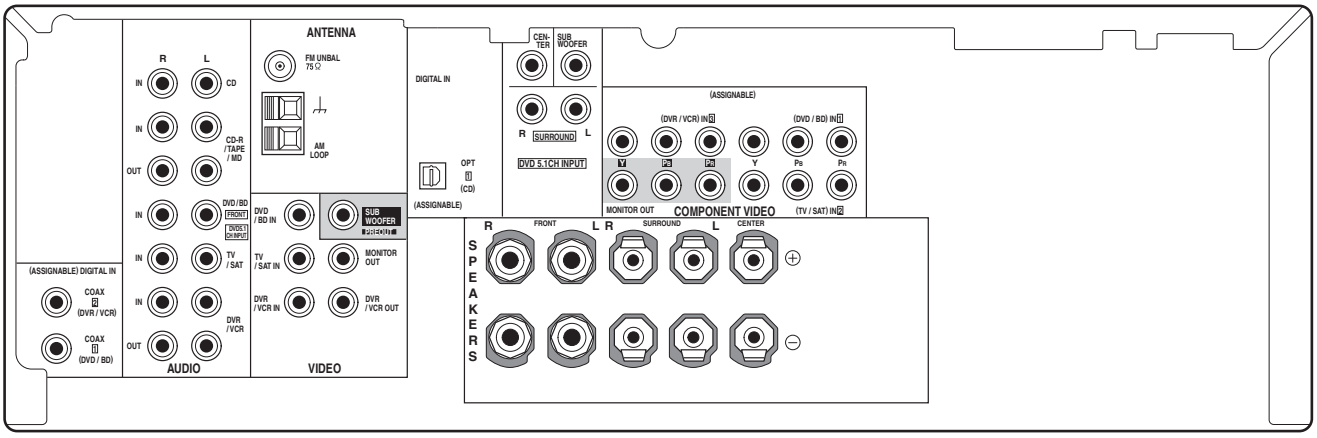
17 Listening mode buttons

AUTO SURR/STREAM DIRECT
Switches between Auto surround mode (Auto playback) and Stream Direct playback. Stream Direct playback bypasses the tone controls for the most accurate reproduction of a source.

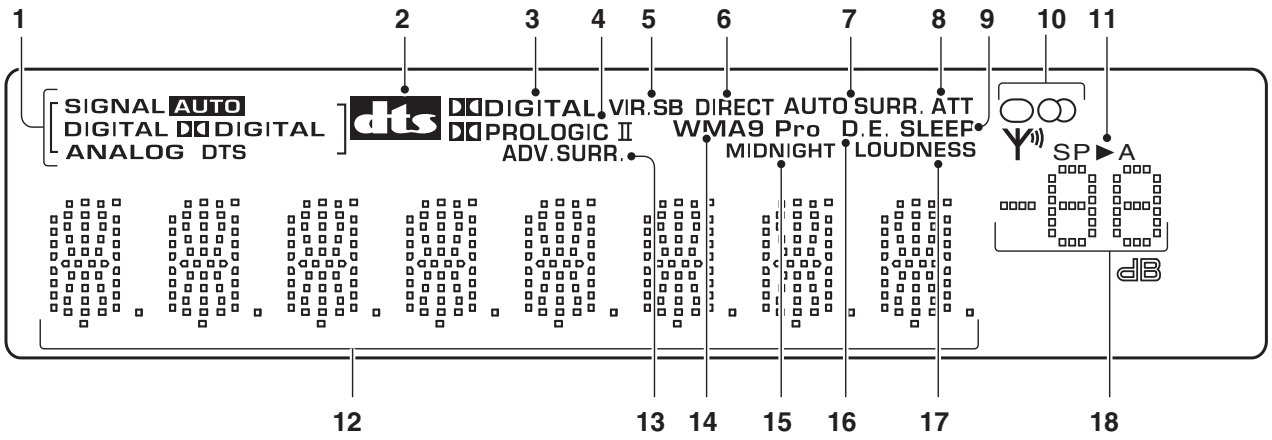
STEREO/A.L.C.
Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

STANDARD
Press for Standard decoding and to switch between the various DD Pro Logic II options.

ADVANCED SURROUND
Switches between the various surround modes.



Display



1 SIGNAL SELECT indicators
Lights to indicate the type of input signal assigned for the current component:

AUTO
Lights when **AUTO** signal select is on.

DIGITAL
Lights when a digital audio signal is detected.

DIGITAL
Lights when a Dolby Digital encoded signal is detected.

ANALOG
Lights when an analog signal is detected.

DTS
Lights when a source with DTS encoded audio signals is detected.

2
Lights to indicate decoding of a DTS multichannel signal.

3 DIGITAL
Lights to indicate decoding of a Dolby Digital multichannel signal.

4 PRO LOGIC II
Lights to indicate Pro Logic II decoding.

5 VIR.SB
Lights during Virtual surround back processing.

6 DIRECT
Lights when source Stream Direct playback is in use. Direct playback bypasses the tone controls for the most accurate reproduction of a source.

7 AUTO SURR.
Lights when the Auto Surround feature is switched on.

8 ATT
Lights when **ANALOG ATT**is used to attenuate (reduce) the level of the analog input signal.

9 SLEEP
Lights when the receiver is in sleep mode.

10 Tuner indicators

/ MONO
Lights when the mono mode is set using the **MPX** button.

/ STEREO
Lights when a stereo FM broadcast is being received in auto stereo mode.

/ TUNED
Lights when a broadcast is being received.

11 Speaker indicator
Shows if the speaker system is on or not.
SP► A means the speakers are switched on.
SP► means the headphones are connected.

12 Character display

13 ADV.SURR. (Advanced Surround)
Lights when one of the Advanced Surround modes has been selected.

14 WMA9 Pro
Lights to indicate decoding of a WMA9 Pro signal.

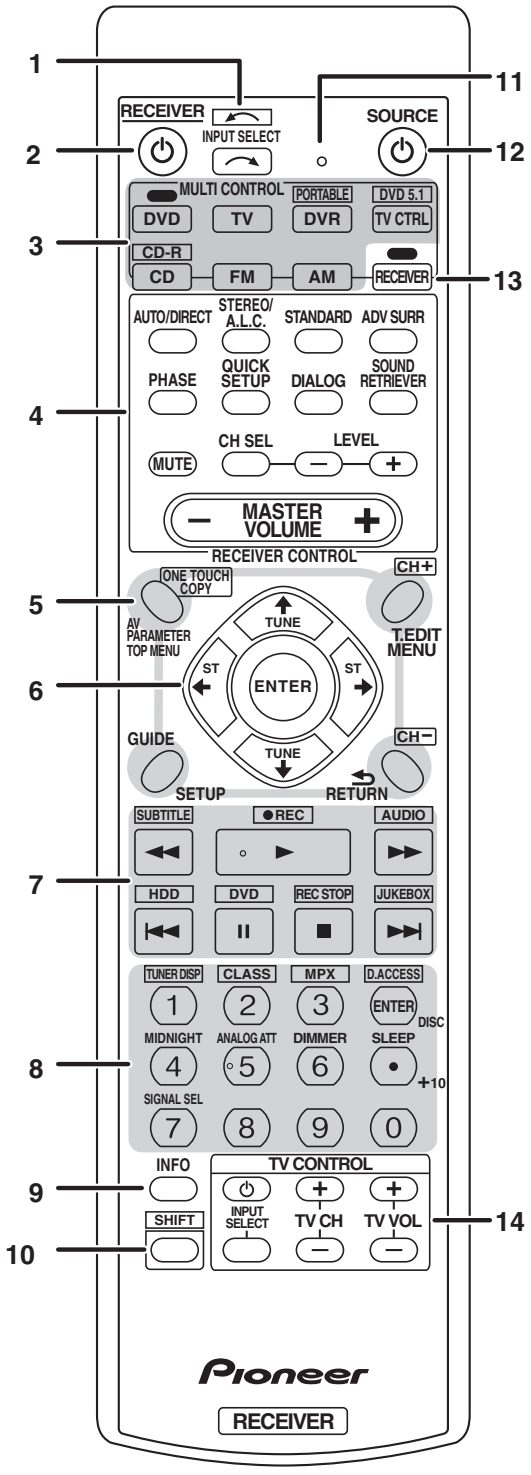
15 MIDNIGHT
Lights during Midnight listening.

16 D.E.
Lights when Dialog Enhancement is switched on.

17 LOUDNESS
Lights during Loudness listening.

18 Master volume level

Remote control



1 INPUT SELECT
Use to select the input source (use **SHIFT** for **INPUT SELECT**).

2 ⏻ RECEIVER
Switches the receiver between standby and on.

3 MULTI CONTROL buttons
Press to select control of other components.

PORTABLE, **DVD 5.1** and **CD-R** buttons can be used with **SHIFT** button.

4 RECEIVER CONTROL buttons

AUTO/DIRECT
Switches between Auto surround mode (Auto playback) and Stream Direct playback. Stream Direct playback bypasses the tone controls for the most accurate reproduction of a source.

STEREO/A.L.C.
Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

STANDARD
Press for Standard decoding and to switch between DD Pro Logic II options.

ADV SURR
Switches between the various surround modes.

PHASE
Press to switch on/off Phase Control.

QUICK SETUP

DIALOG
Use to make dialog stand out when watching TV or a movie.

SOUND RETRIEVER
Press to restore CD quality sound to compressed audio sources.

MUTE
Mutes/unmutes the sound.

CH SEL
Press repeatedly to select a channel, then use **LEVEL +/–** to adjust the level.

LEVEL +/–
Use to adjust the channel levels.

MASTER VOLUME +/–
Use to set the listening volume.

5 System Setup and Component control buttons
The following button controls can be accessed after you have selected the corresponding **MULTI CONTROL** button (**DVD**,**DVR**, **RECEIVER**, etc.).

AV PARAMETER
Use to access the AV options.

TOP MENU
Displays the disc 'top' menu of a DVD.

ONE TOUCH COPY*
Copies the currently playing title from DVD to HDD or vice-versa.

GUIDE
Displays/changes the subtitles on multilingual DVDs.

SETUP
Press to access the System Setup menu. Also functions as the **SETUP** button for DVD/DVR units.

T.EDIT
Memorizes/names stations for recall.

MENU
Displays the disc menu of DVD-Video discs.

RETURN
Confirm and exit the current menu screen.

CH +/–*
Use to select channels for DVD/DVR units.

6 ↑↓←→ (TUNE ↑/↓, ST ←/→), ENTER
Use the arrow buttons when setting up your surround sound system. Also used to control DVD menus/options.

Use the **TUNE ↑/↓** buttons can be used to find radio frequencies and the **ST ←/→** buttons can be used to select preset radio stations.

7 Component control buttons
Use these buttons to control a Pioneer DVD player or recorder connected to your system. These buttons can be accessed after the **DVD** or **DVR** button is pressed.

Button	What it does
►	Starts/resumes normal playback.
II	Pauses/unpauses a disc.
■	Stops playback.
◄◄/►►	Press to start fast reverse/forward scanning.
I◄◄	Skips to the start of the current track or chapter, then previous tracks/ chapters.
►►I	Skips to the next track or chapter.
●REC*	Starts recording.
REC STOP*	Stops recording.
SUBTITLE*	Displays/changes the subtitles on multilingual DVD-Video discs.
AUDIO*	Changes the audio language or channel on DVD discs.
HDD*, DVD*	Switch between the hard disk and DVD controls for DVR.
JUKEBOX*	Display the jukebox screen.

8 Number buttons and other component controls
Use the number buttons to directly select a radio frequency or the tracks on a Pioneer DVD/DVR units. There are other buttons that can be accessed after the **RECEIVER** button is pressed. (For example **MIDNIGHT**, etc.)

TUNER DISP*
Switches between named station presets and radio frequencies.

CLASS*
Switches between the three banks (classes) of radio station presets.

MPX*
Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

D.ACCESS*
After pressing, you can access a radio station directly using the number buttons.

MIDNIGHT
Switches to Midnight or Loudness listening.

ANALOG ATT
Attenuates (lowers) the level of an analog input signal to prevent distortion.

DIMMER
Dims or brightens the display.

SLEEP
Press to change the amount of time before the receiver switches into standby (**30 min – 60 min – 90 min – Off**). You can check the remaining sleep time at any time by pressing **SLEEP** once.

SIGNAL SEL
Use to select an input signal.

9 INFO
Displays additional EPG information on a DVD/ DVR.

10 SHIFT
Press to access the 'boxed' commands (above the buttons) on the remote. These buttons are marked with an asterisk (*) in this section.

11 Remote control LED
Lights when a command is sent from the remote control.

12 ⏻ SOURCE
Turns on or off the power of the Pioneer DVD/ DVR units when **DVD** or **DVR** is selected using the **MULTI CONTROL** buttons.

13 RECEIVER
Switches the remote to control the receiver (used to select the green commands above the number buttons (**SETUP**, etc)). Also use this button to set up surround sound.

14 TV CONTROL buttons
These buttons can control only be used with Pioneer plasma displays.

⏻
Use to turn on/off the power of the TV.

INPUT SELECT
Use to select the TV input signal.

TV CH +/–
Use to select channels.

TV VOL +/–
Use to adjust the volume on your TV.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedure	Check points
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a DVD player.)	Each channel audio and operations must be normal.
3	Check the digital audio playback. (Make the digital connections with a DVD player.)	Each channel audio and operations must be normal.
4	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
5	Check the video outputs. (Connect with a DVD player.)	Video and operations must be normal.
6	Check the sound from headphone output.	Sound must be normal, without noise.
7	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding video and audio:

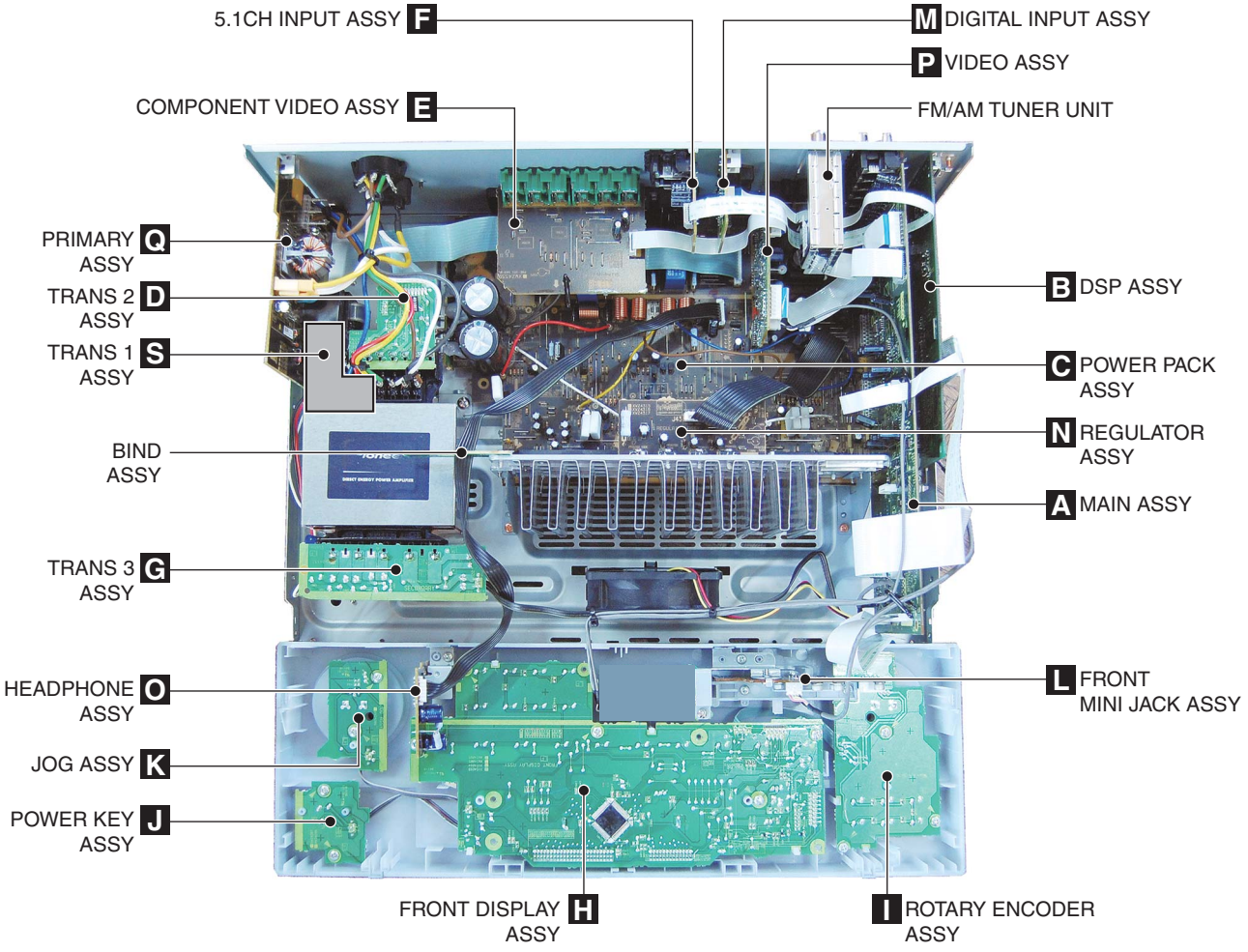
Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

■ CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

3.2 PCB LOCATIONS



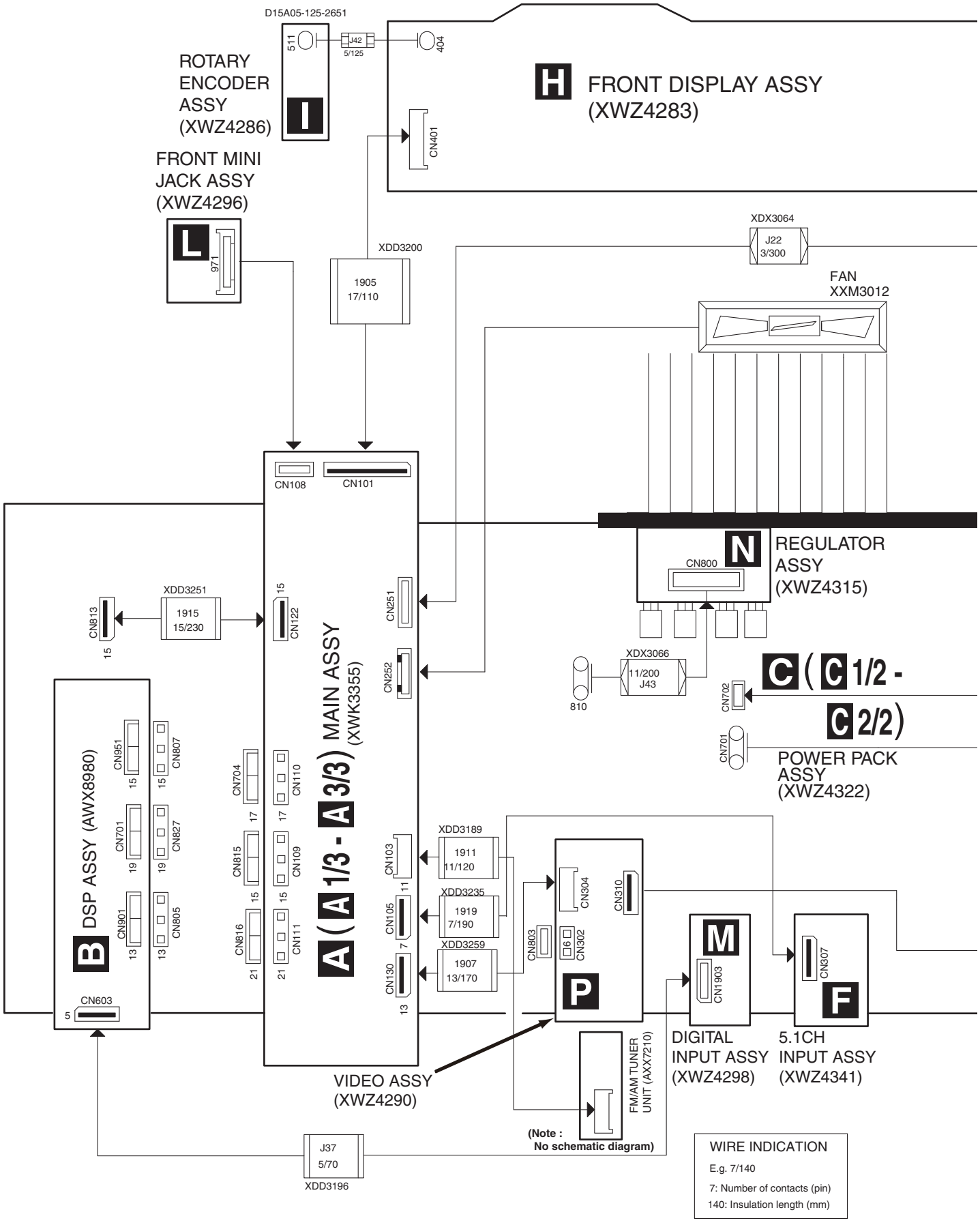
NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

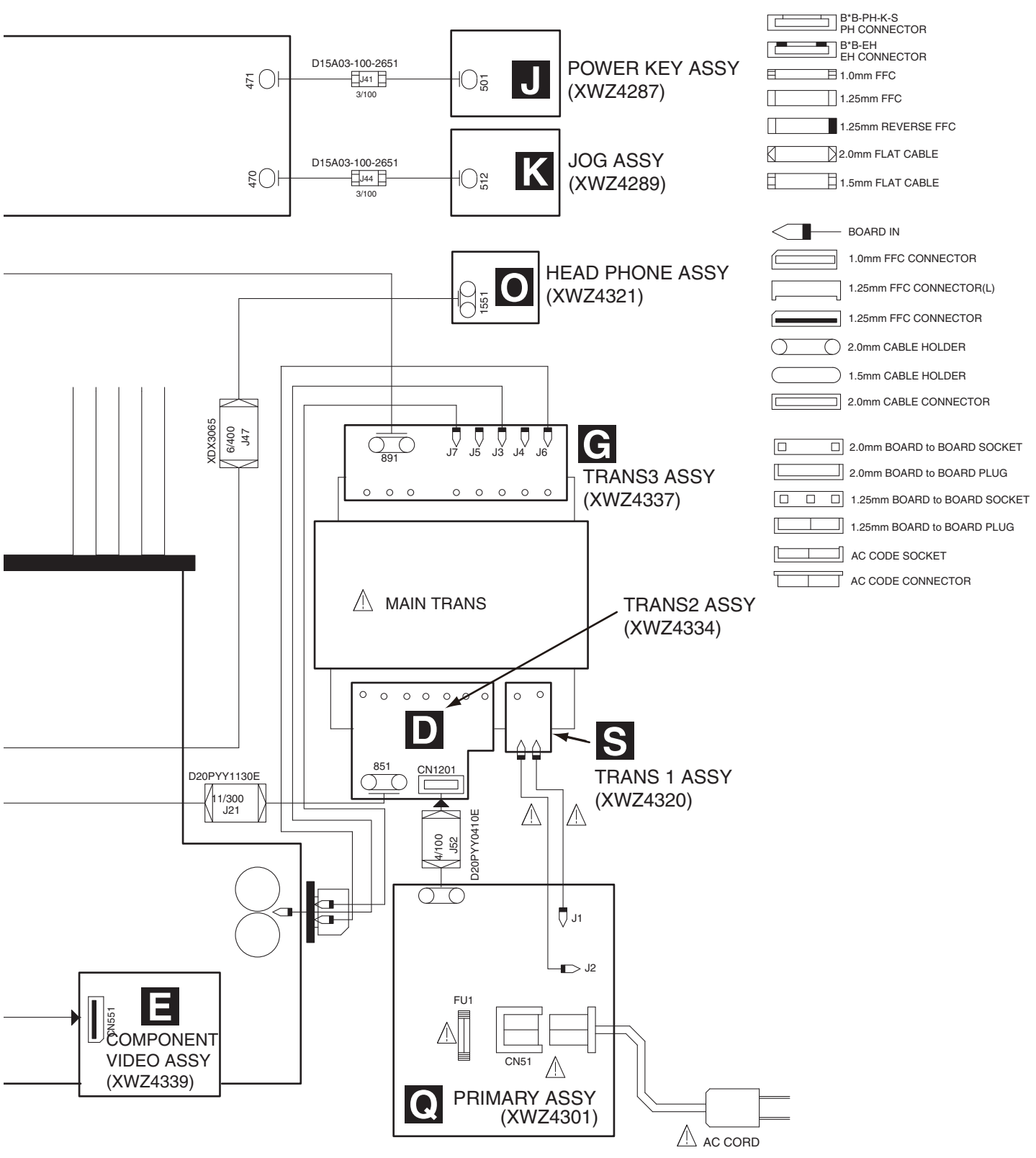
LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	..DSP ASSY	AWX8980
NSP	1	..COMPLEX ASSY	XWK3331
	2	..FRONT DISPLAY ASSY	XWZ4283
	2	..ROTARY ENCODER ASSY	XWZ4286
	2	..POWER KEY ASSY	XWZ4287
	2	..JOG ASSY	XWZ4289
	2	..VIDEO ASSY	XWZ4290
	2	..FRONT MINI JACK ASSY	XWZ4296
	2	..DIGITAL INPUT ASSY	XWZ4298
	2	..PRIMARY ASSY	XWZ4301
	2	..REGULATOR ASSY	XWZ4315
	2	..TRANS 1 ASSY	XWZ4320
	2	..HEADPHONE ASSY	XWZ4321
NSP	1	..AMP ASSY	XWK3345
	2	..POWER PACK ASSY	XWZ4322
	2	..TRANS 2 ASSY	XWZ4334
	2	..TRANS 3 ASSY	XWZ4337
	2	..COMPONENT VIDEO ASSY	XWZ4339
	2	..5.1CH INPUT ASSY	XWZ4341
	2	..BIND ASSY	XWZ4344
	1	..MAIN ASSY	XWK3355
	1	..FM/AM TUNER UNIT	AXX7210

4. BLOCK BIAGRAM

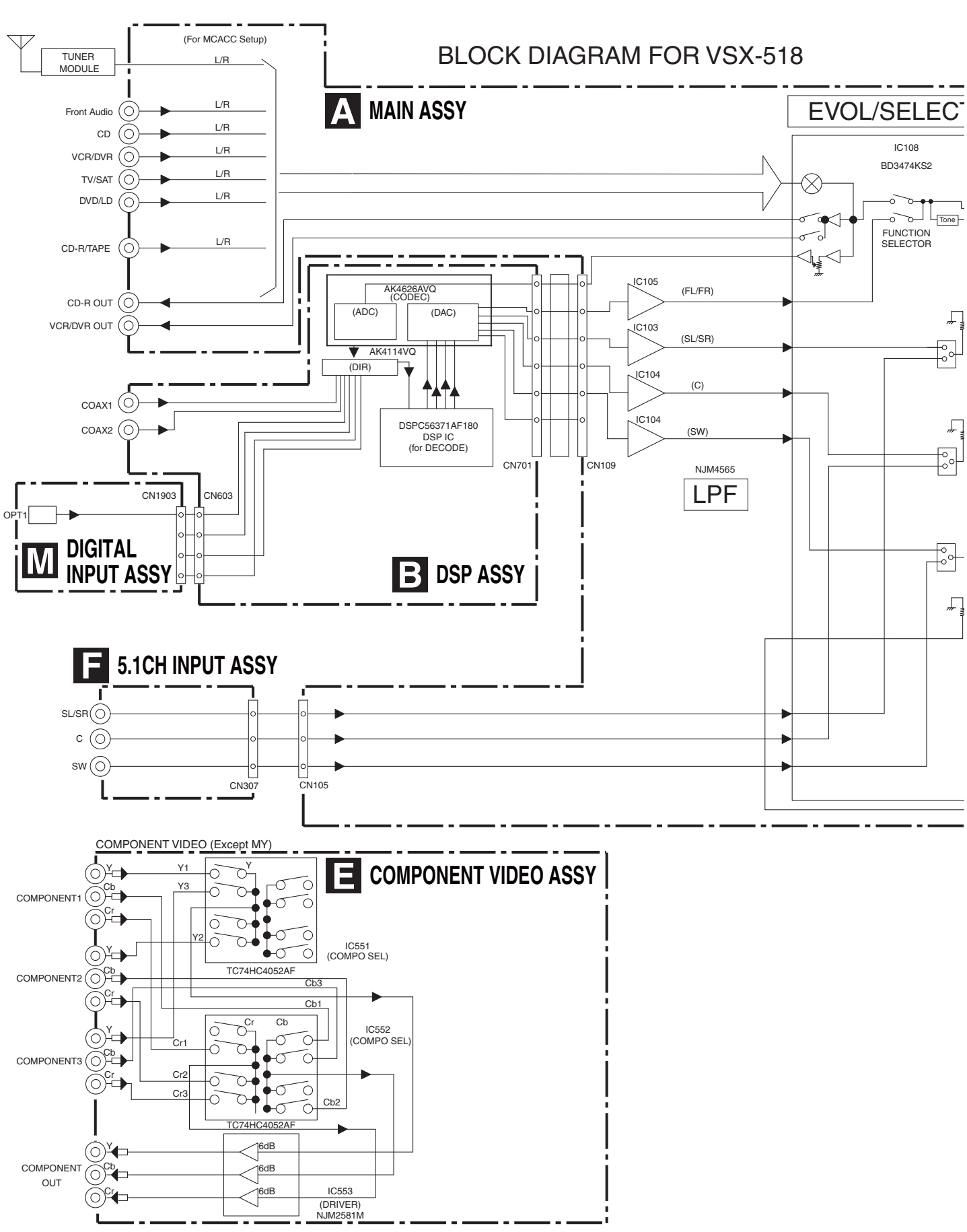
4.1 OVERALL WIRING CONNECTION DIAGRAM

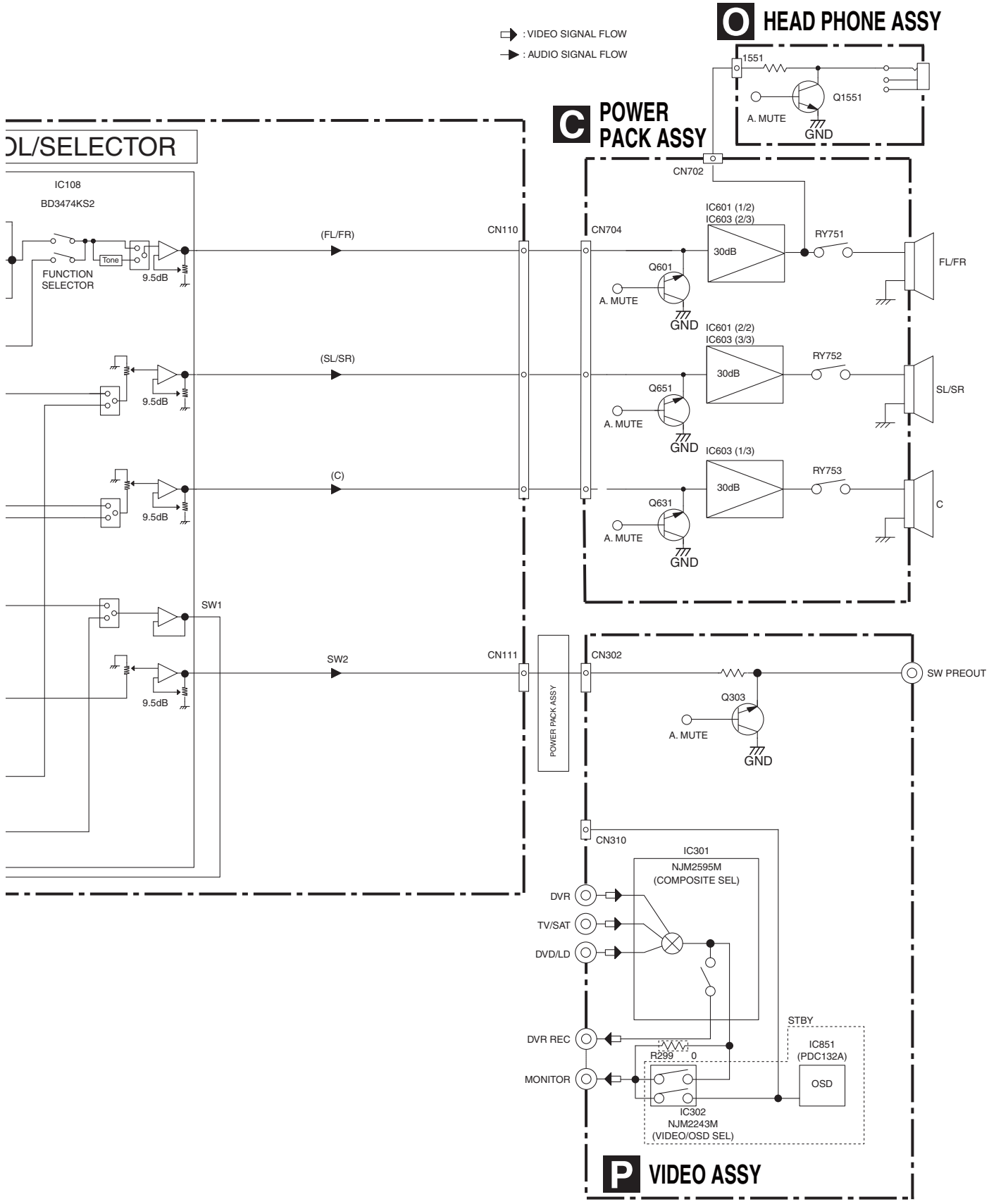




- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.

4.2 BLOCK DIAGRAM

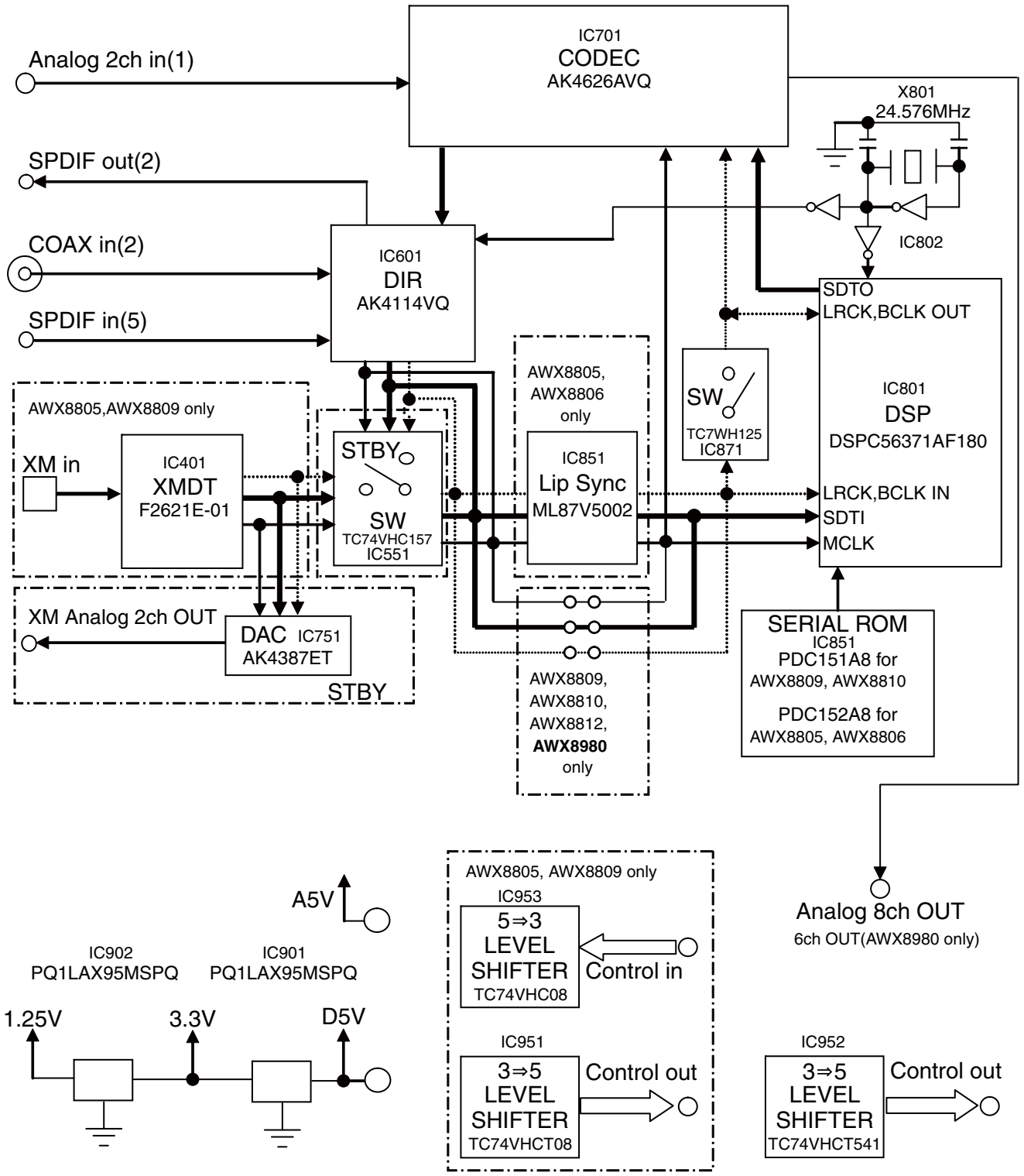



: VIDEO SIGNAL FLOW
: AUDIO SIGNAL FLOW
O HEAD PHONE ASSY
1551
Q1551
A. MUTE
GND
C POWER PACK ASSY
OL/SELECTOR
IC108
BD3474KS2
Tone
FUNCTION SELECTOR
9.5dB
(FL/FR)
(SL/SR)
(C)
SW1
SW2
CN110
CN111
CN702
CN704
IC601 (1/2)
IC603 (2/3)
IC601 (2/2)
IC603 (3/3)
IC603 (1/3)
30dB
Q601
Q651
Q631
RY751
RY752
RY753
FL/FR
SL/SR
C
CN302
SW PREOUT
Q303
POWER PACK ASSY
CN310
IC301
NJM2595M
(COMPOSITE SEL)
DVR
TV/SAT
DVD/LD
DVR REC
MONITOR
STBY
IC851
(PDC132A)
R299 0
OSD
IC302
NJM2243M
(VIDEO/OSD SEL)
P VIDEO ASSY

4.3 DSP BLOCK DIAGRAM

DSP ASSY Block Diagram

B DSP ASSY
(VSX-518 : AWX8980)



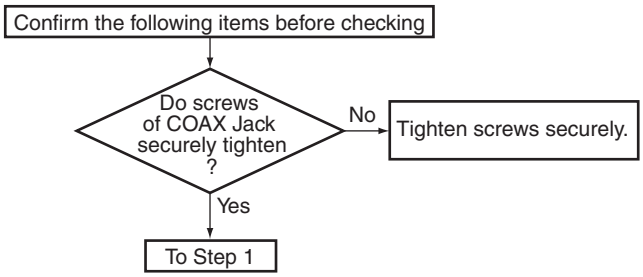
5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART (DSP ASSY)

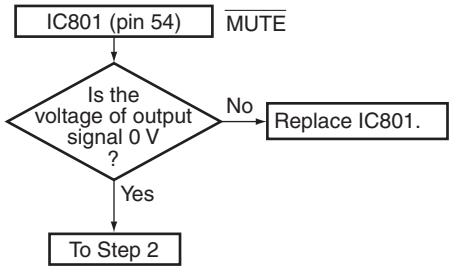
■ Troubleshooting for all destination

- When a sound is not out in the multi-CH signal playback mode or surround mode with the digital signal input. (SurroundBack is not output by setting.)
- Suppose CR to be normal contact and that is not damaged.
- This shows failure analysis of DSP Assy.

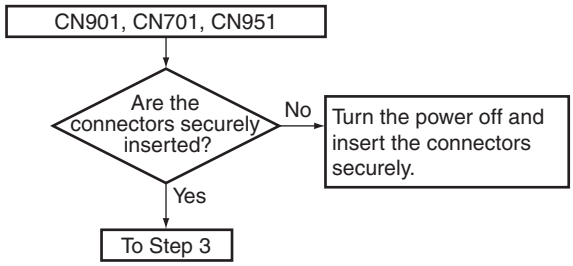
Step 0: Preliminary confirmation



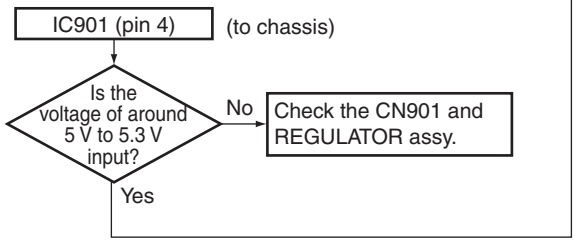
Step 1: MUTE pin

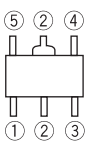


Step 2: BtoB connector

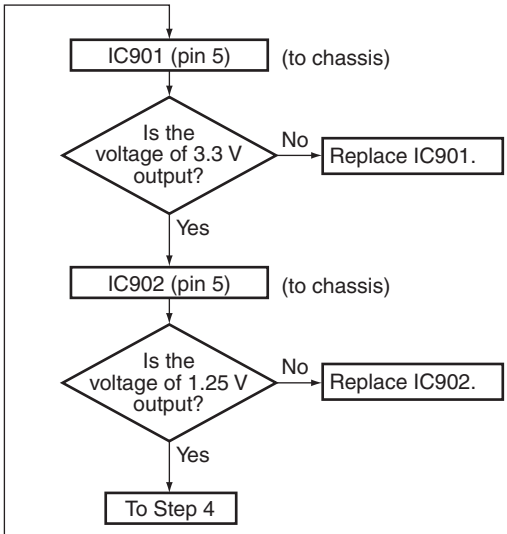


Step 3: Regulator IC

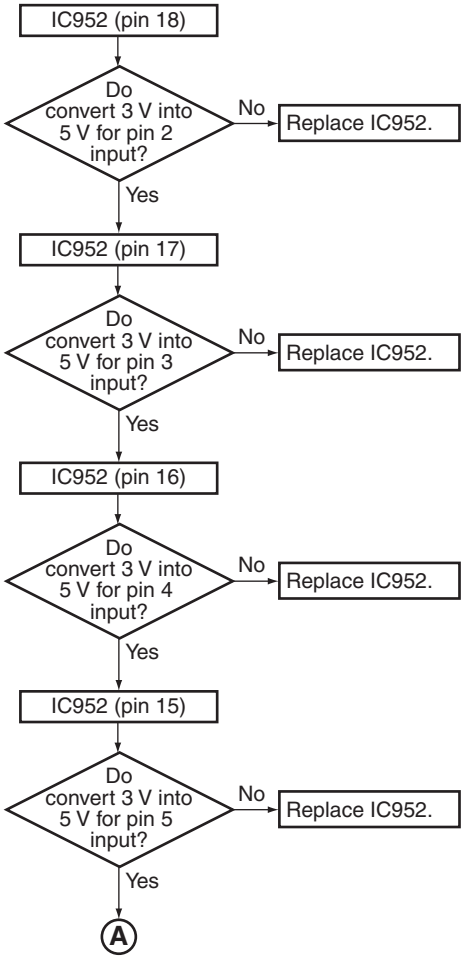


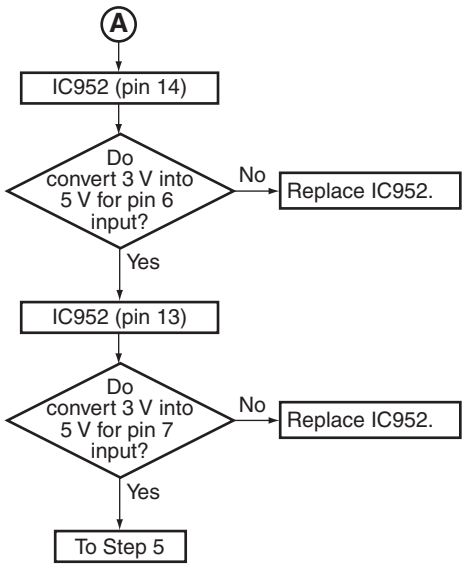


Part shape and Pin arrangement of IC901 and IC902

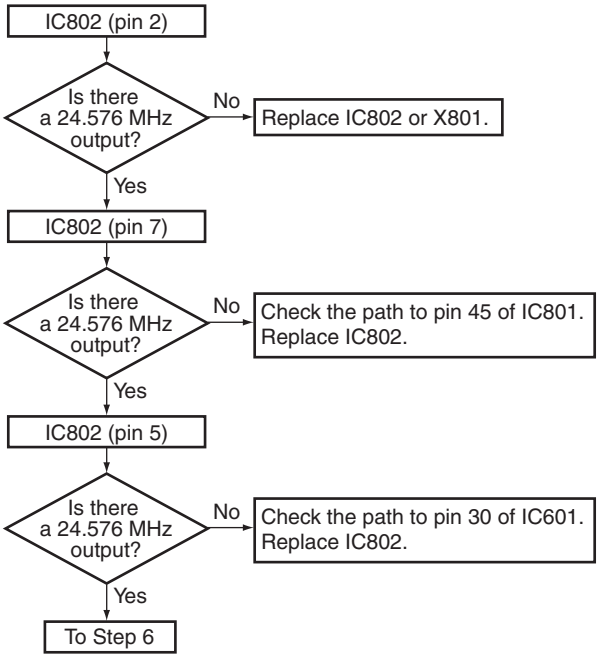


Step 4: 3 V to 5 V conversion



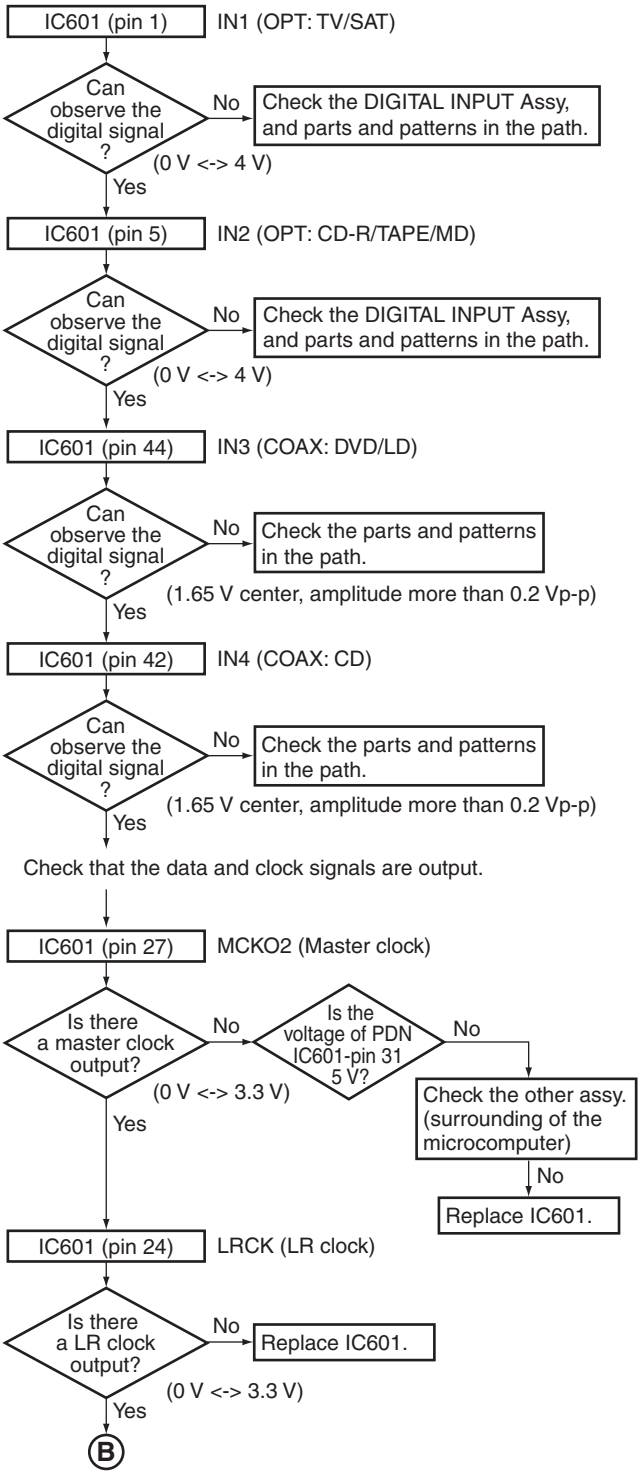


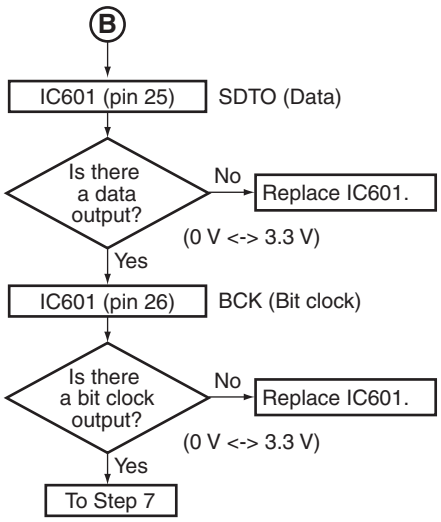
Step 5: X'tal



Step 6: DIR

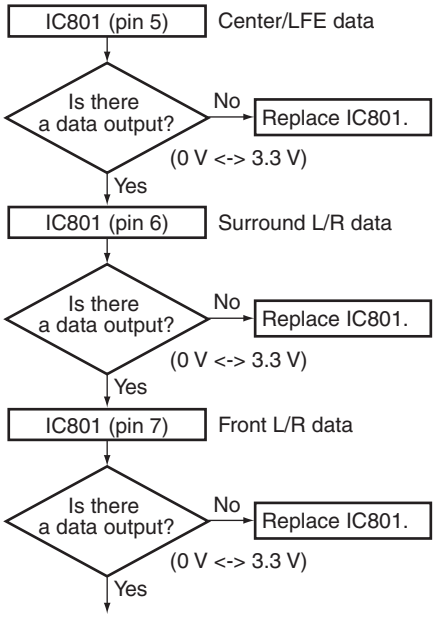
Check that the S/PDIF signal is output.
Check that changes by pulling out and inserting the digital input lines.



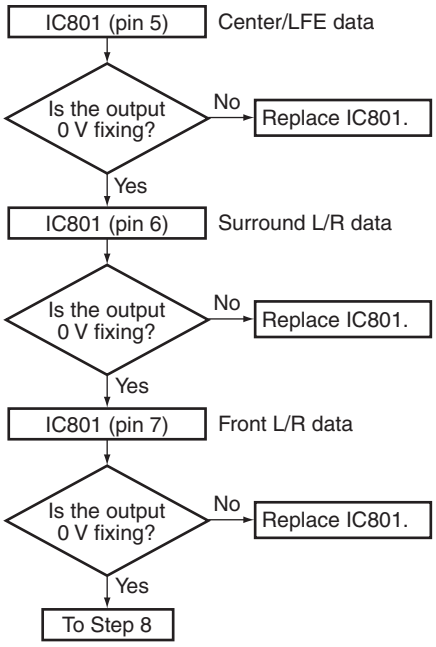


Step 7: DSP output (digital)

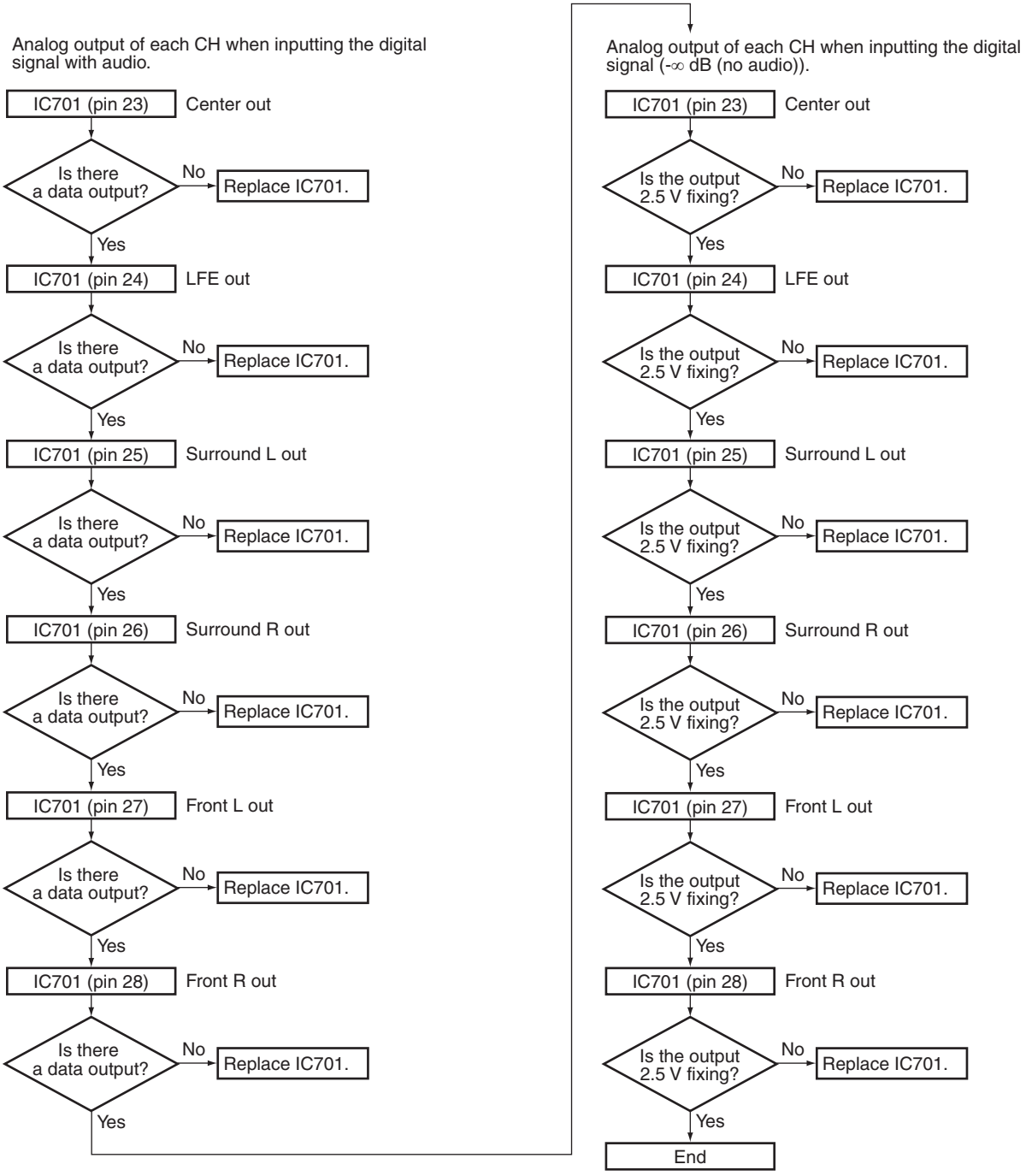
Digital output of each CH when inputting the digital signal with audio.



Digital output of each CH when inputting the digital signal (-∞ dB (no audio)).

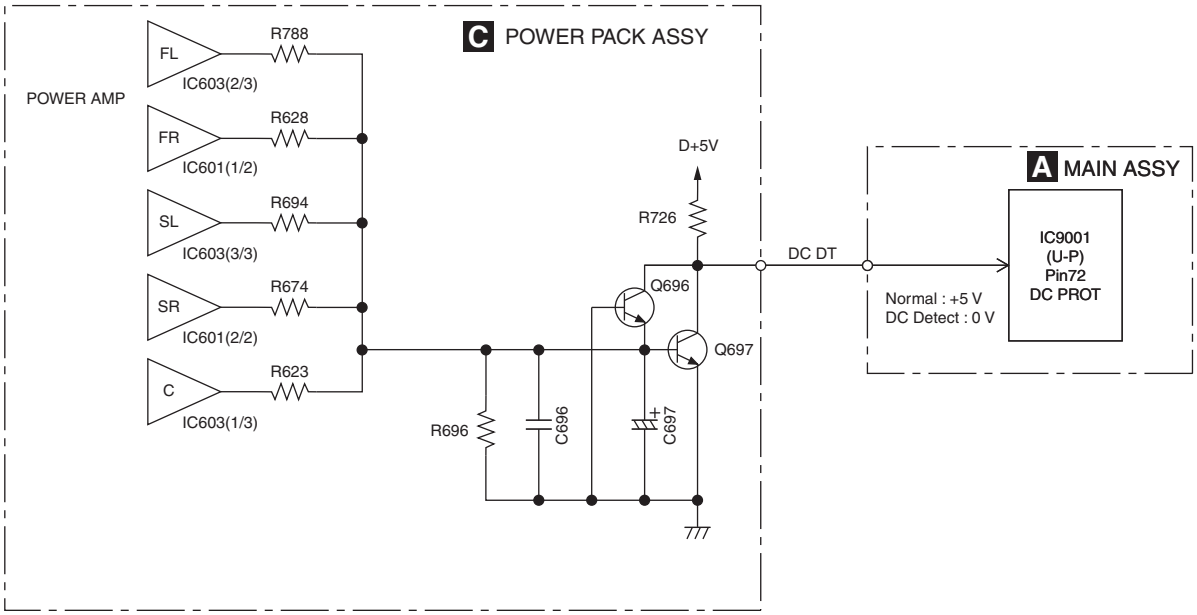


Step 8: Codec output (analog)

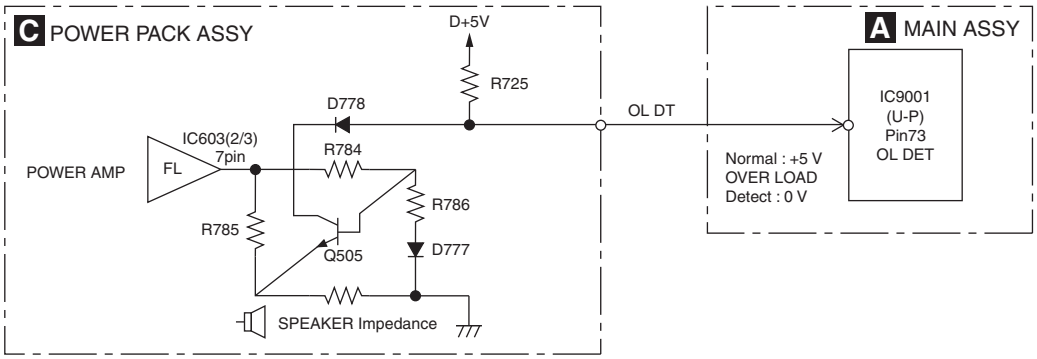


5.2 DETECTION CIRCUIT

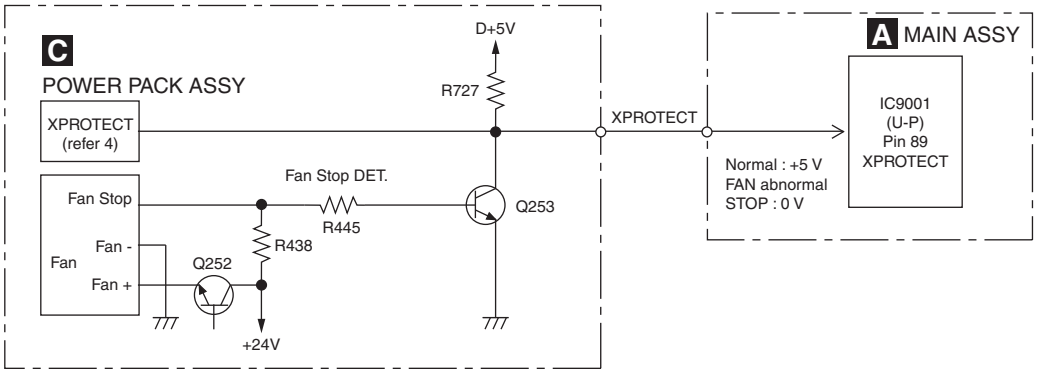
1. DC Derection Circuit Diagram : Example of VSX-918V/KUXJ/CA



2. Overload Detection Circuit Diagram: Example of VSX-918V/KUXJ/CA FRONT Channel



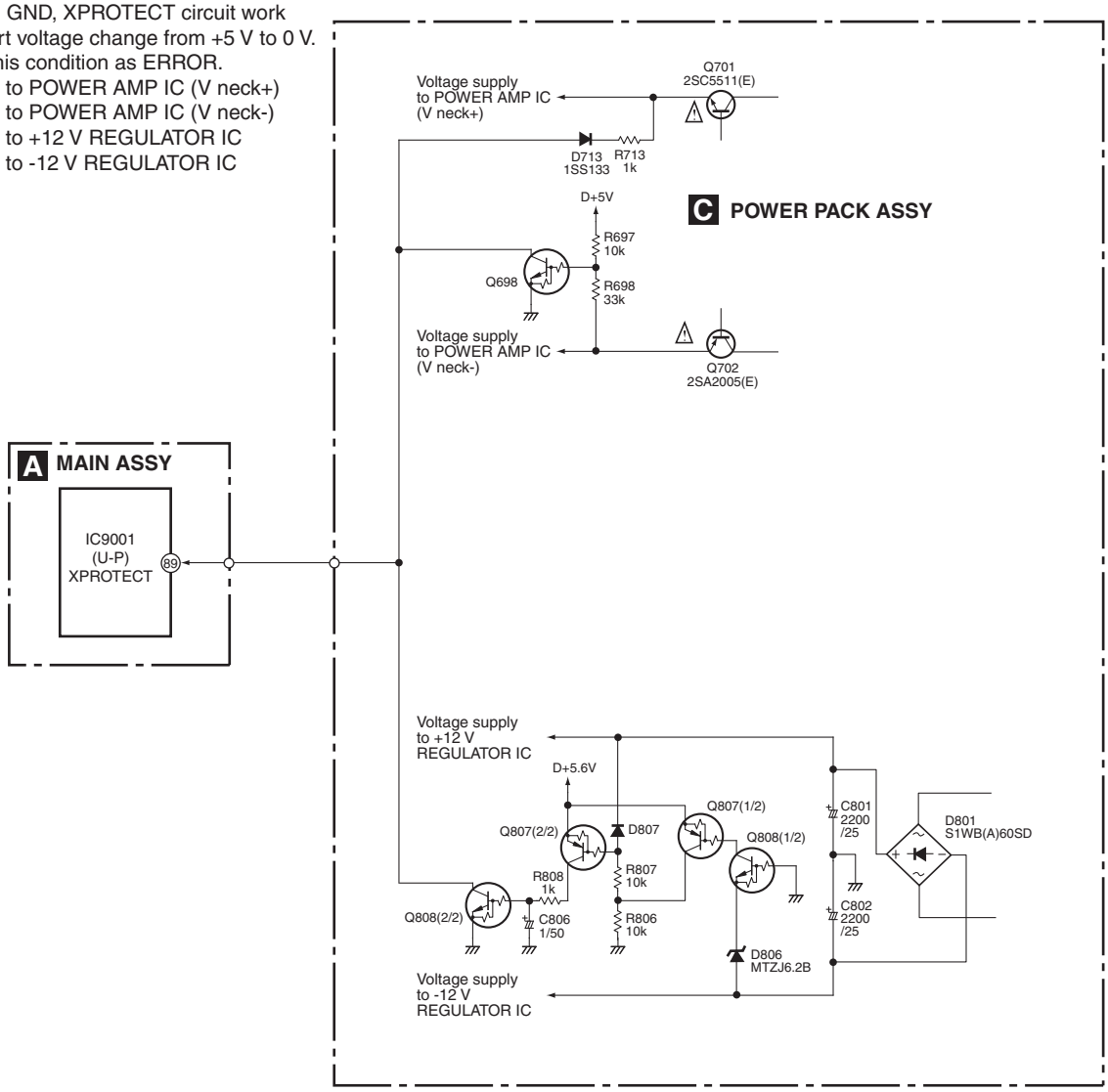
3. Fan Stop Protection Circuit Diagram



4. XPROTECT Detection Circuit Diagram

When below 6 kind of voltage supply become to be short circuit to GND, XPROTECT circuit work and U-P input port voltage change from +5 V to 0 V. The U-P detect this condition as ERROR.

- Voltage supply to POWER AMP IC (V neck+)
- Voltage supply to POWER AMP IC (V neck-)
- Voltage supply to +12 V REGULATOR IC
- Voltage supply to -12 V REGULATOR IC

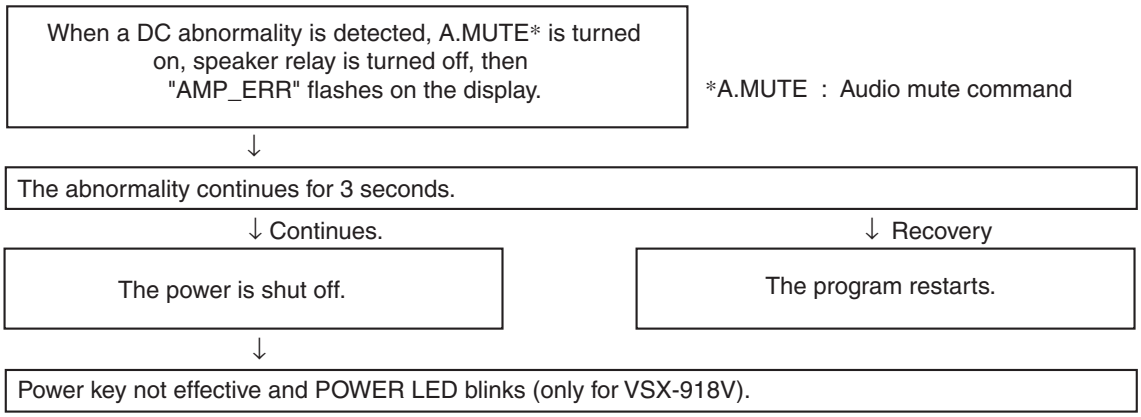


5.3 AMPLIFIER SYSTEM PROTECTION OPERATION SPECIFICATION

1. DC-abnormality detection

DC detection is only enabled 2 seconds after power-on.
If there is a fault in the power amplifier or a high-level signal lower than 5 Hz is input, the DC_DET port becomes “L”.
If the “L” is detected, the microprocessor will perform as following flow chart.

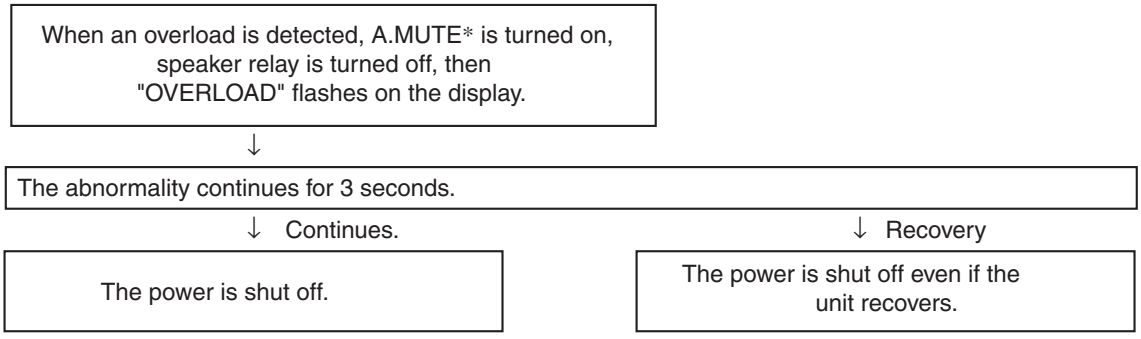
In the case of simultaneous detection with the overload protection circuit, DC-abnormality detection is performed preferentially to overload detection.


When a DC abnormality is detected, A.MUTE* is turned on, speaker relay is turned off, then "AMP_ERR" flashes on the display.
*A.MUTE : Audio mute command
The abnormality continues for 3 seconds.
↓ Continues.
↓ Recovery
The power is shut off.
The program restarts.
Power key not effective and POWER LED blinks (only for VSX-918V).

However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.
① TESTMODE ON (A55F+A55F)
② When power off, push TUNE+ key + AUTO SURR/DIRECT key continuously 2sec.
(②: When a DC abnormality is detected and the power is shut off.)
Any other key input from front panel or remote control will not be detected.

2. Overload detection

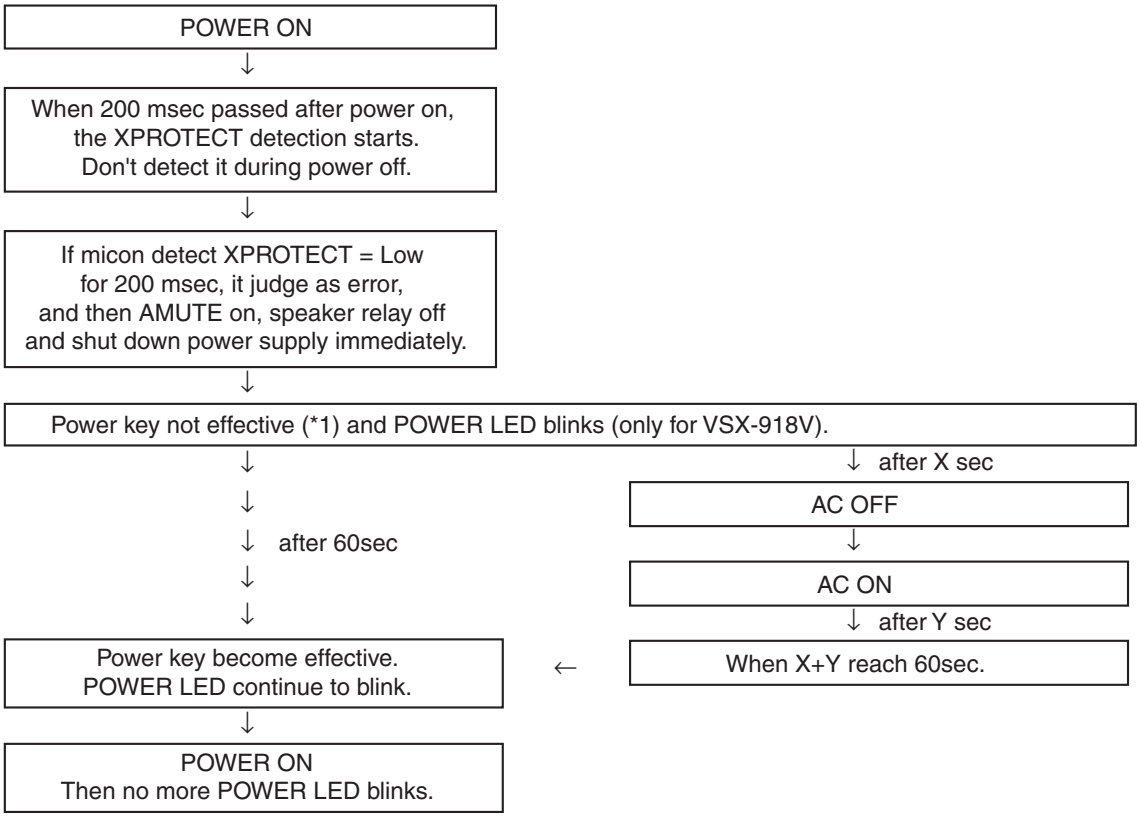
If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes “L”.
If the “L” is detected, the microprocessor will perform as following flow chart.


When an overload is detected, A.MUTE* is turned on, speaker relay is turned off, then "OVERLOAD" flashes on the display.
The abnormality continues for 3 seconds.
↓ Continues.
↓ Recovery
The power is shut off.
The power is shut off even if the unit recovers.

3. XPROTECT detection

XPROTECT is started to be monitored 200msec after power on.
XPROTECT port is checked every 20msec.
If Low level (ERROR) is recognized during consecutive 9 times, micon judge it as XPROTECT ERROR.

It processes more preferentially than DC abnormal detection and overload detection.


POWER ON
When 200 msec passed after power on, the XPROTECT detection starts. Don't detect it during power off.
If micon detect XPROTECT = Low for 200 msec, it judge as error, and then AMUTE on, speaker relay off and shut down power supply immediately.
Power key not effective (*1) and POWER LED blinks (only for VSX-918V).
after 60sec
after X sec
AC OFF
AC ON
after Y sec
When X+Y reach 60sec.
Power key become effective. POWER LED continue to blink.
POWER ON Then no more POWER LED blinks.

(*1) However, when the following keys are pushed so that the key input of a line and the service can be carried out, power can be on.
① TESTMODE ON (A55F+A55F)
② When power off, push TUNE+ key + AUTO SURR/DIRECT key continuously 2sec.
(Effective, only when power-off is carried out by DC detection / XPROTECT detection)
Any other key input from front panel or remote control will not be detected.

4. Fan stop detection operation flow in the XPROTECT detection

If the fan is forcibly stopped or become out of order, the 'XPROTECT' port becomes "L". Then an abnormality of fan is detected.

- Detection routine and recovery is same as "3. XPROTECT detection".

6. SERVICE MODE

There is no information to be shown in this chapter.

7. DISASSEMBLY

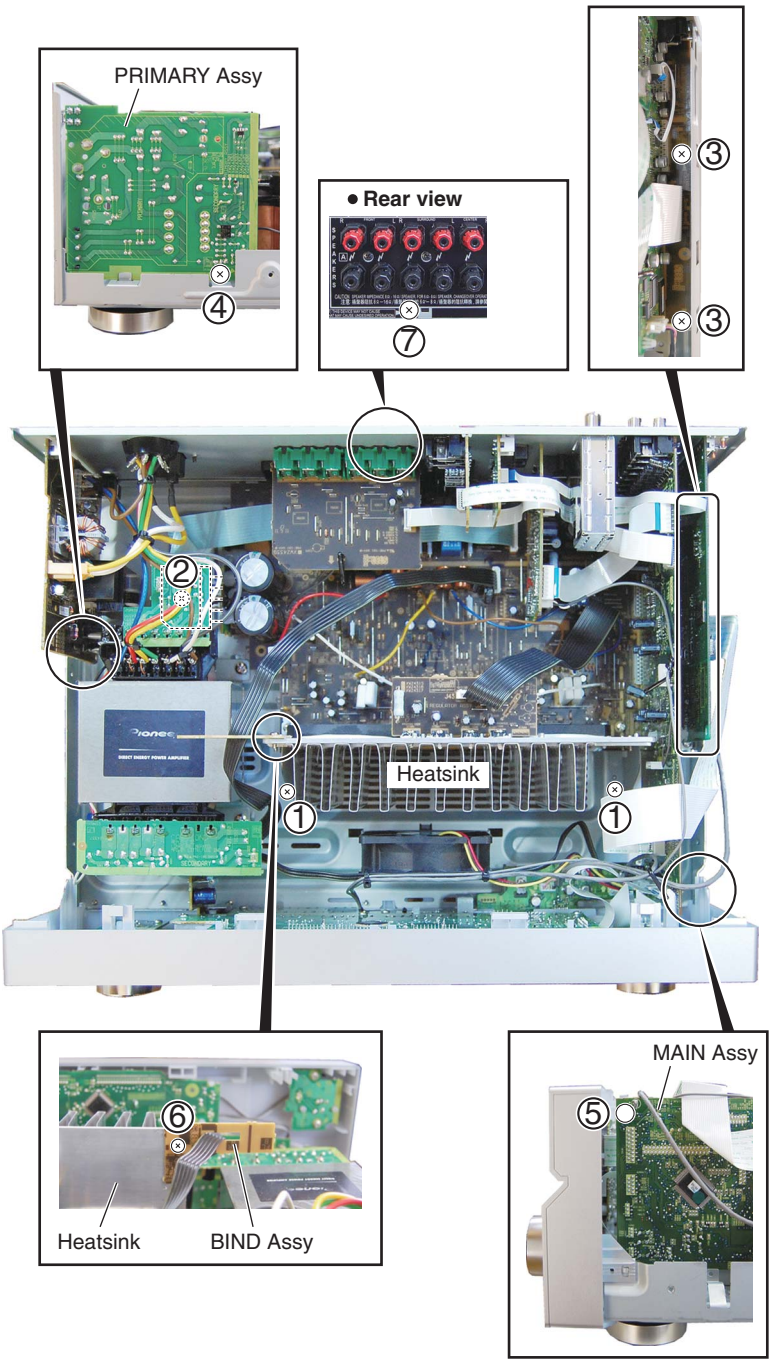
Note : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Diagnosis of the Unit

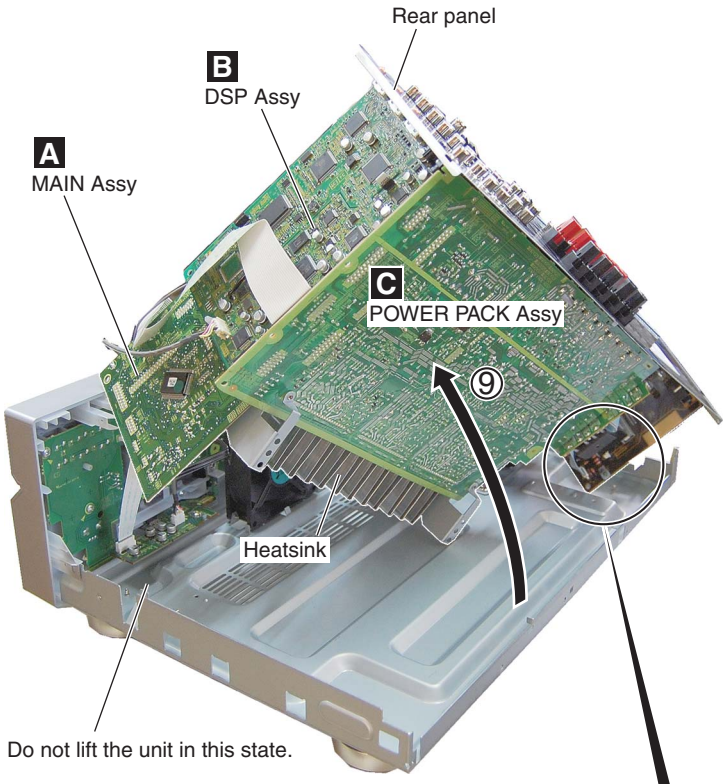
Caution:
Heatsink section in work becomes hot, and be careful with it.

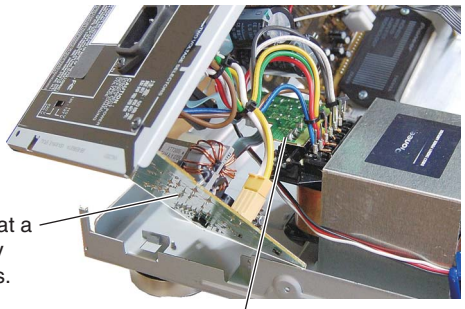
❶ Remove the bonnet by removing the six screws.

① Remove the two screws.
② Remove the one screw.
③ Remove the two screws.
④ Remove the one screw.
⑤ Remove the push rivet.
⑥ Remove the BIND Assy by removing the one screw.
⑦ Remove the one screw.
⑧ Release the binders, as required.



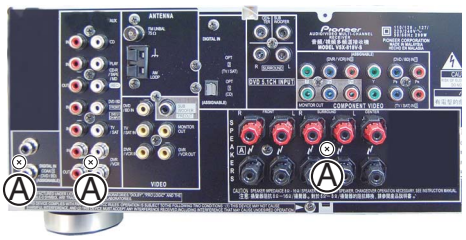
⑨ Arrange the unit as shown in the photo below.




Be careful with it so that a part of PRIMARY Assy does not touch chassis.
Be careful with it when lifts an AMP. section not to damage the TRANS Assys.

Diagnosis

Caution:
During diagnosis, be sure NOT to remove the three screws marked Ⓐ in the above photo.
There is the case that a product does not work normally when removes these screws.



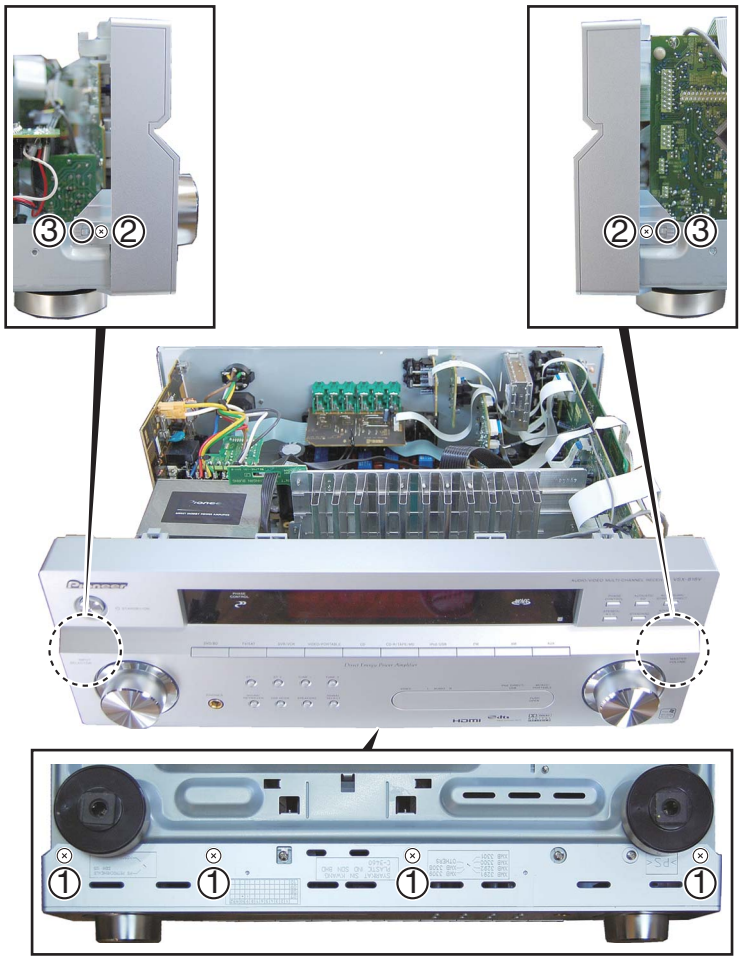
Disassembly

Front Panel Section

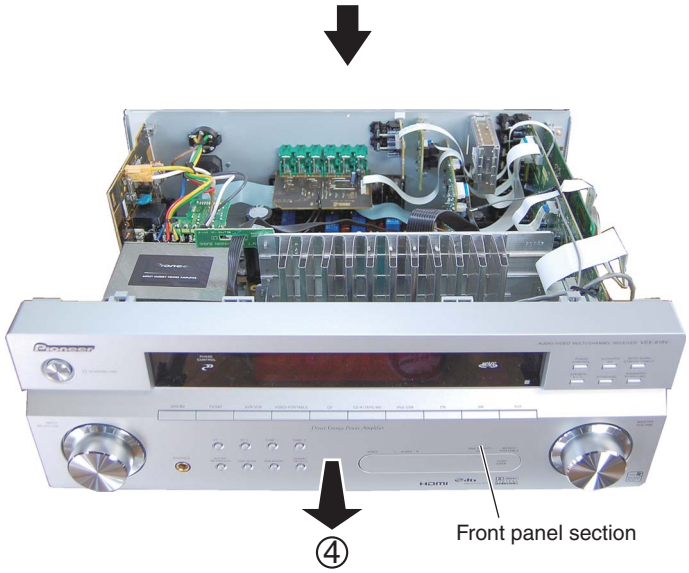
Caution:
Heatsink section in work becomes hot, and be careful with it.

❶ Remove the bonnet by removing the six screws.

① Remove the four screws.
② Remove the two screws.
③ Unhook the two hooks.



④ Remove the front panel section.



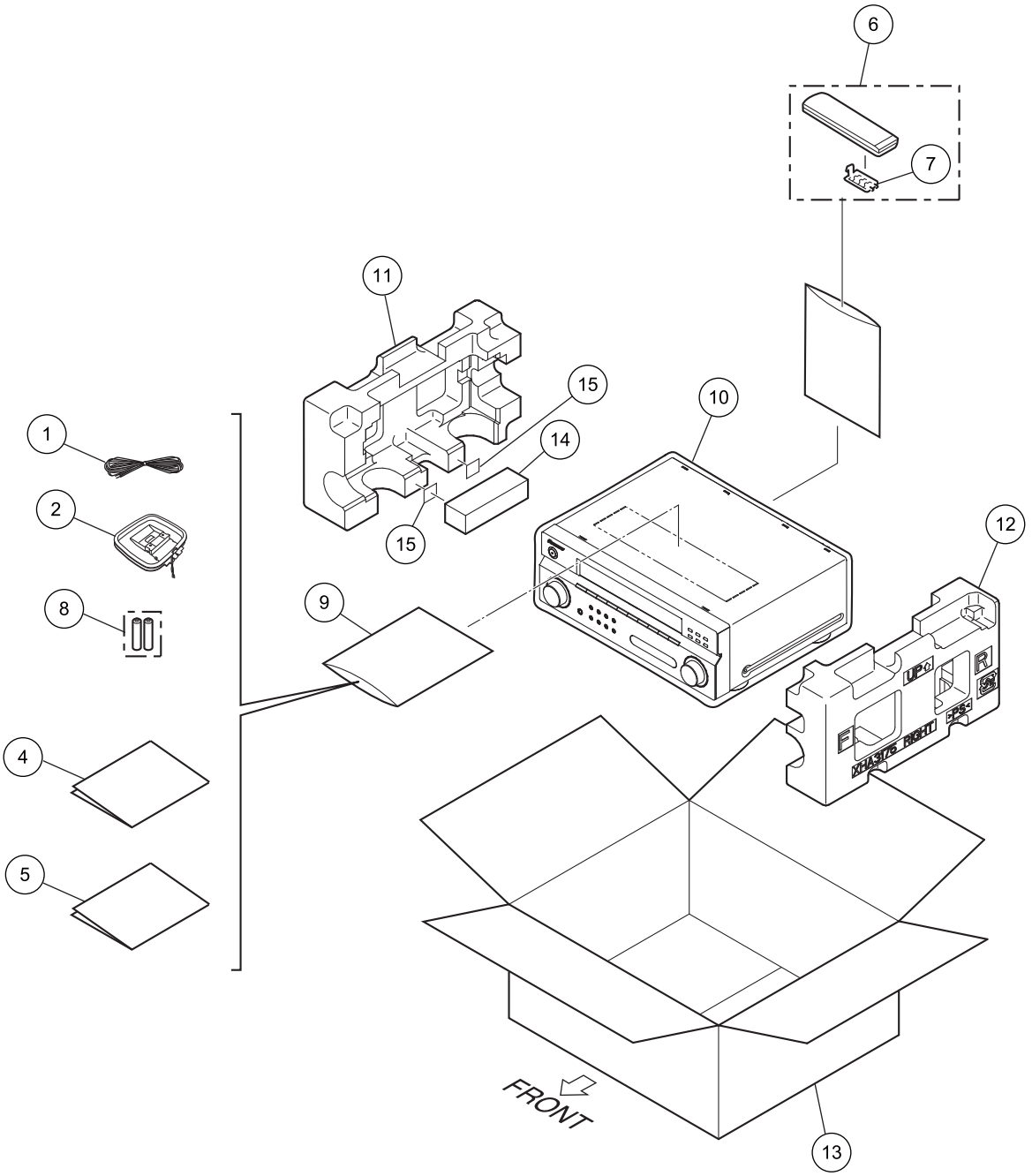
8. EACH SETTING AND ADJUSTMENT

There is no information to be shown in this chapter.

9. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

9.1 PACKING



(1) PACKING SECTION PARTS LIST

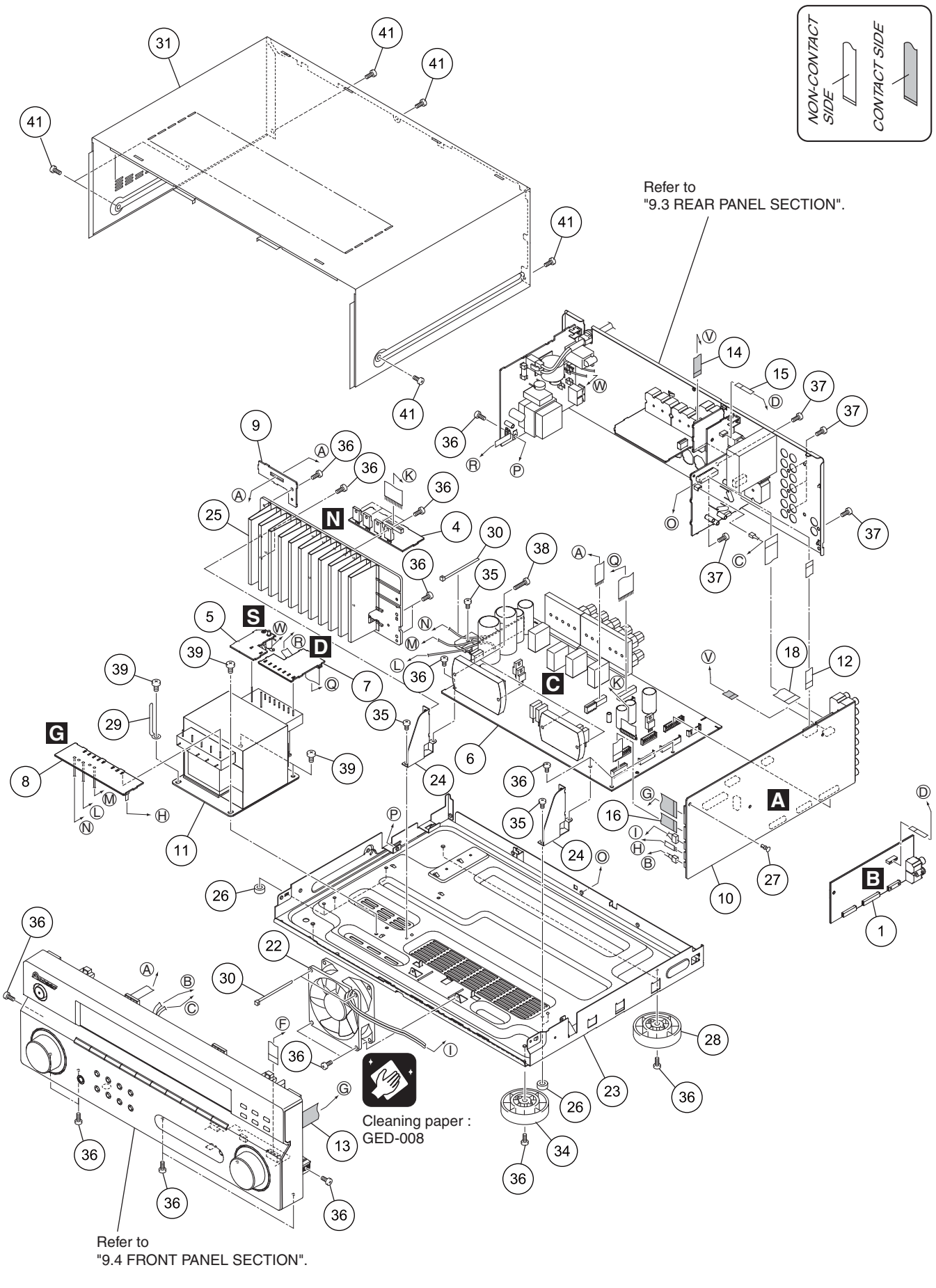
Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7030
	2	AM Loop Antenna	ATB7013
	3	•••••	
	4	Operating Instructions (English/French)	XRE3174
	5	Operating Instructions (Spanish)	XRC3359
	6	Remote Control	See Contrast table (2)
	7	Battery Cover	AZN7933
NSP	8	Dry Cell Battery (AA, R6)	XEX3002
NSP	9	Polyethylene Bag (0.06 x 230 x 340)	AHG7117
	10	Packing Sheet	AHG7069
	11	Left Pad V5	XHA3174
	12	Right Pad V5	XHA3175
	13	Packing Case	See Contrast table (2)
	14	Sub Pad	XHA3179
NSP	15	DS Tape	XEH3001

(2) CONTRAST TABLE

VSX-518-K/KUCXJ and VSX-518-S/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-518-K /KUCXJ	VSX-518-S /KUCXJ
	6	Remote Control	XXD3155	XXD3165
	13	Packing Case	XHD3779	XHD3780

9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

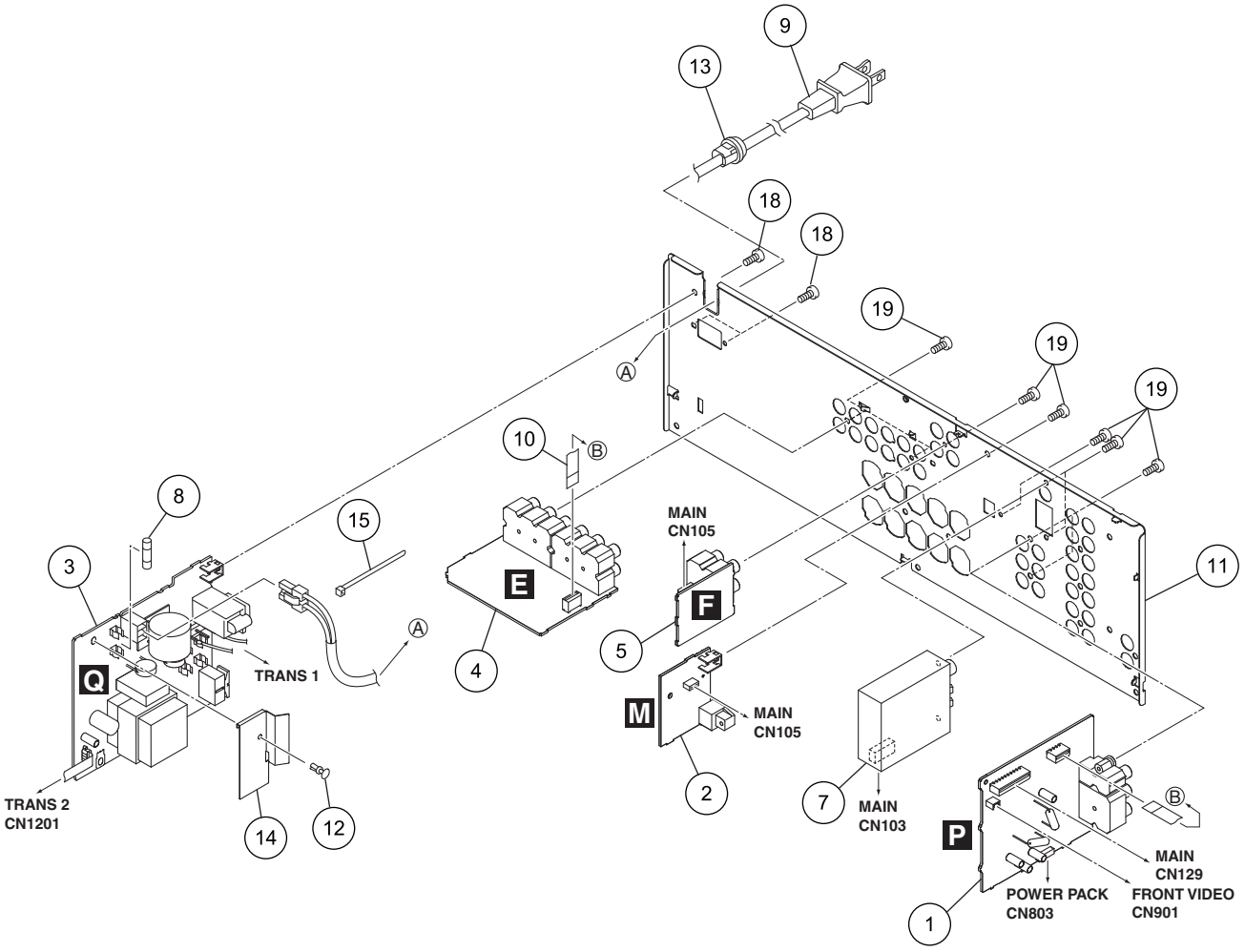
Mark	No.	Description	Part No.
	1	DSP Assy	AWX8980
	2	• • • • •	
	3	• • • • •	
	4	REGULATOR Assy	XWZ4315
	5	TRANS 1 Assy	XWZ4320
	6	POWER PACK Assy	XWZ4322
	7	TRANS 2 Assy	XWZ4334
	8	TRANS 3 Assy	XWZ4337
	9	BIND Assy	XWZ4344
	10	MAIN Assy	XWK3355
⚠	11	Power Transformer (T1501)	XTS3112
	12	11P Flexible Cable (J1911)	XDD3189
	13	17P Flexible Cable (J1905)	XDD3200
	14	7P Flexible Cable (J1919)	XDD3235
	15	5P Flexible Cable (J1912)	XDD3248
	16	15P Flexible Cable (J1915)	XDD3251
	17	• • • • •	
	18	13P Flexible Cable (J1907)	XDD3259
	19	• • • • •	
	20	• • • • •	
	21	• • • • •	• • • • •
⚠	22	DC Fan Motor	XXM3012
NSP	23	Chassis 918	XNA3060
	24	H/S Angle V3	XNG3145
NSP	25	H/Sink V5	XNH3048
NSP	26	Spacer	AEB7092
	27	Push Rivet	AEC7205
	28	Insulator	AMR7198
	29	Cord Clamper	RNH1005
NSP	30	Binder (BK-1)	ZCA-BK1
	31	Bonnet	See Contrast table (2)
	32	• • • • •	
	33	• • • • •	
	34	Insulator	See Contrast table (2)
	35	Screw	BBZ30P060FCC
	36	Screw	BBZ30P080FNI
	37	Screw	BBZ30P080FTB
	38	Screw	BBZ30P140FTC
	39	Screw	BBZ40P080FNI
	40	• • • • •	
	41	Screw	See Contrast table (2)

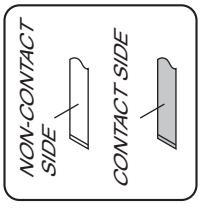
(2) CONTRAST TABLE

VSX-518-K/KUCXJ and VSX-518-S/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-518-K /KUCXJ	VSX-518-S /KUCXJ
	31	Bonnet	XZN3196	XZN3197
	34	Insulator	AMR7198	PNW2766
	41	Screw	BBZ30P080FTB	BBZ30P080FNI

9.3 REAR PANEL SECTION





(1) REAR PANEL SECTION PARTS LIST

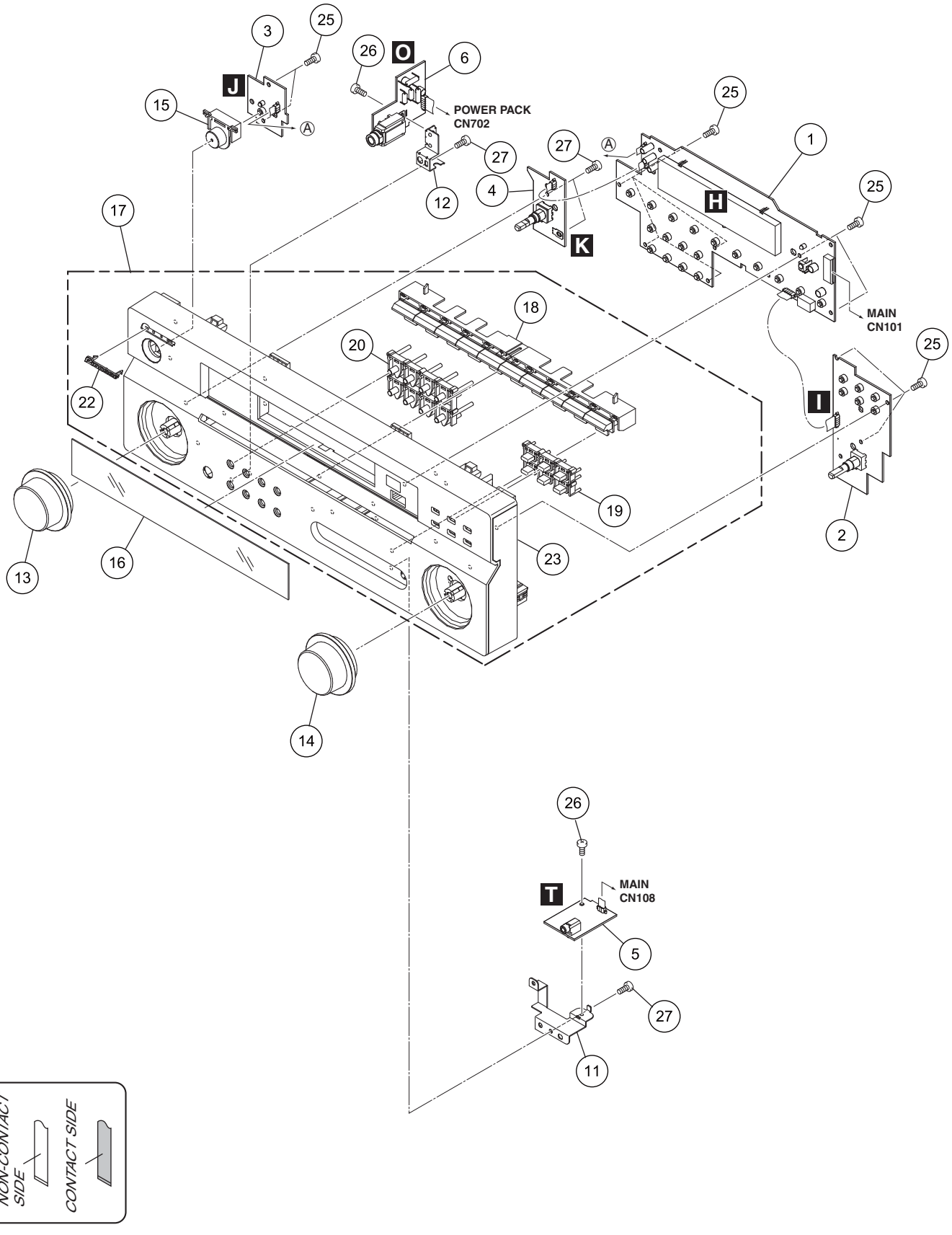
Mark	No.	Description	Part No.
	1	VIDEO Assy	XWZ4290
	2	DIGITAL INPUT Assy	XWZ4298
	3	PRIMARY Assy	XWZ4301
	4	COMPONENT VIDEO Assy	XWZ4339
	5	5.1CH INPUT Assy	XWZ4341
	6	•••••	
	7	FM/AM TUNER Unit	AXX7210
⚠	8	Fuse (FU1: 8A)	REK1153
⚠	9	AC Power Cord	ADG7024
	10	7P Flexible Cable (J1913)	XDD3254
	11	R Panel	See Contrast table (2)
	12	Push Rivet	AEC7205
	13	Cord Stopper	CM-22C
	14	PRI Barrier	XEC3087
NSP	15	Binder (BK-1)	ZCA-BK1
	16	•••••	
	17	•••••	
	18	Screw	BBZ30P080FNI
	19	Screw	BBZ30P080FTB

(2) CONTRAST TABLE

VSX-518-K/KUCXJ and VSX-518-S/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-518-K /KUCXJ	VSX-518-S /KUCXJ
	11	R Panel	XNC3554	XNC3555

9.4 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FRONT DISPLAY Assy	XWZ4283
	2	ROTARY ENCODER Assy	XWZ4286
	3	POWER KEY Assy	XWZ4287
	4	JOG Assy	XWZ4289
	5	FRONT MINI JACK Assy	XWZ4296
	6	HEADPHONE Assy	XWZ4321
	7	• • • • •	
	8	• • • • •	
	9	• • • • •	
	10	• • • • •	
	11	Earth Plate FR V3	XNG3144
NSP	12	HP GND Plate	XNG3178
	13	VOL Knob V4	See Contrast table (2)
	14	VOL Knob V5	See Contrast table (2)
	15	STANDBY BTN	See Contrast table (2)
	16	D Panel PC	XAK3595
NSP	17	F Panel Assy	See Contrast table (2)
	18	FUNC BTN	See Contrast table (2)
	19	SUB BTN	See Contrast table (2)
	20	TUNER BTN	See Contrast table (2)
	21	• • • • •	
	22	Pioneer Name Plate	See Contrast table (2)
	23	FRT Panel	See Contrast table (2)
	24	• • • • •	
	25	Screw	BBZ30P080FTC
	26	Screw	BBZ30P080FNI
	27	Screw	BPZ30P080FTC

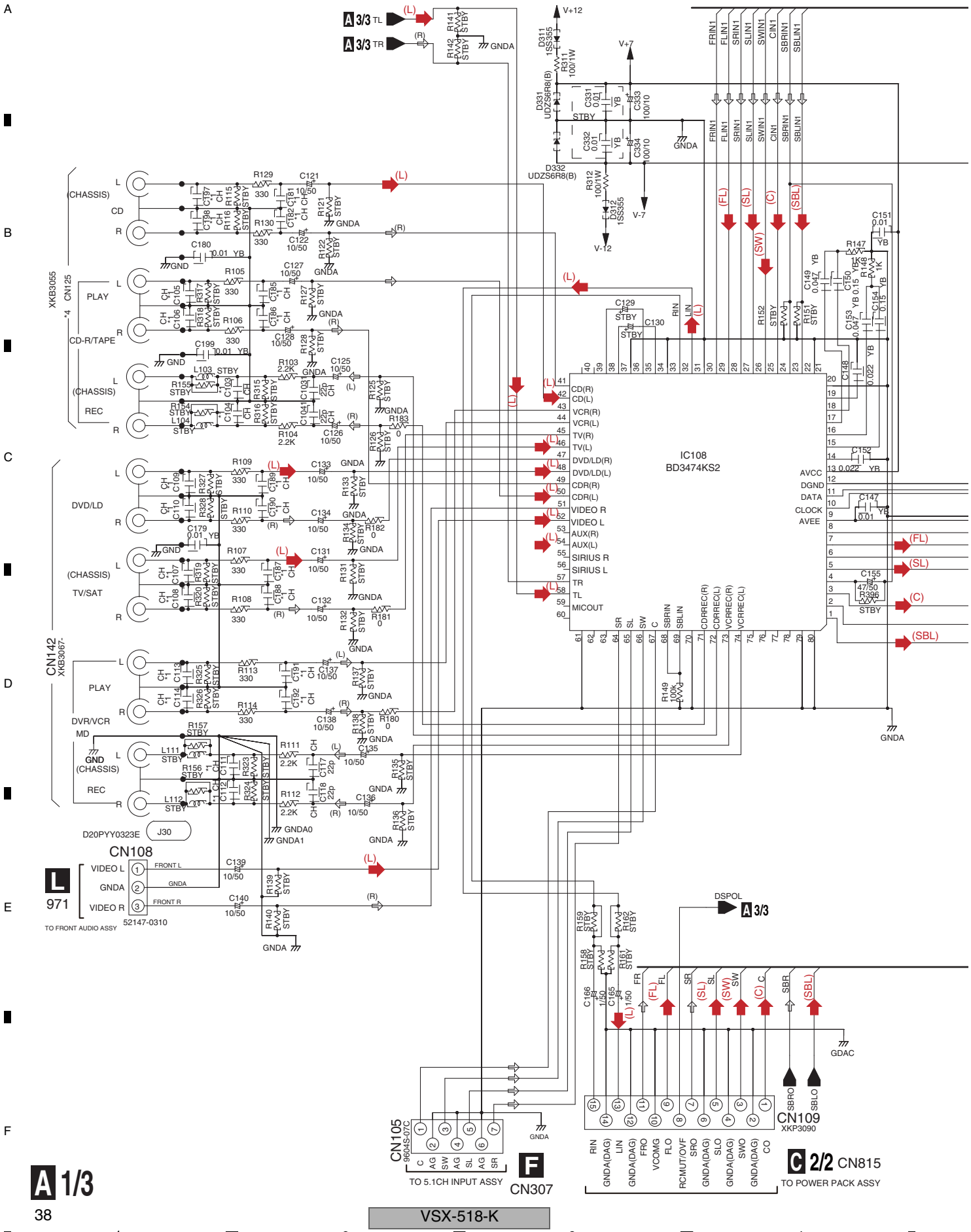
(2) CONTRAST TABLE

VSX-518-K/KUCXJ and VSX-518-S/KUCXJ are constructed the same except for the following:

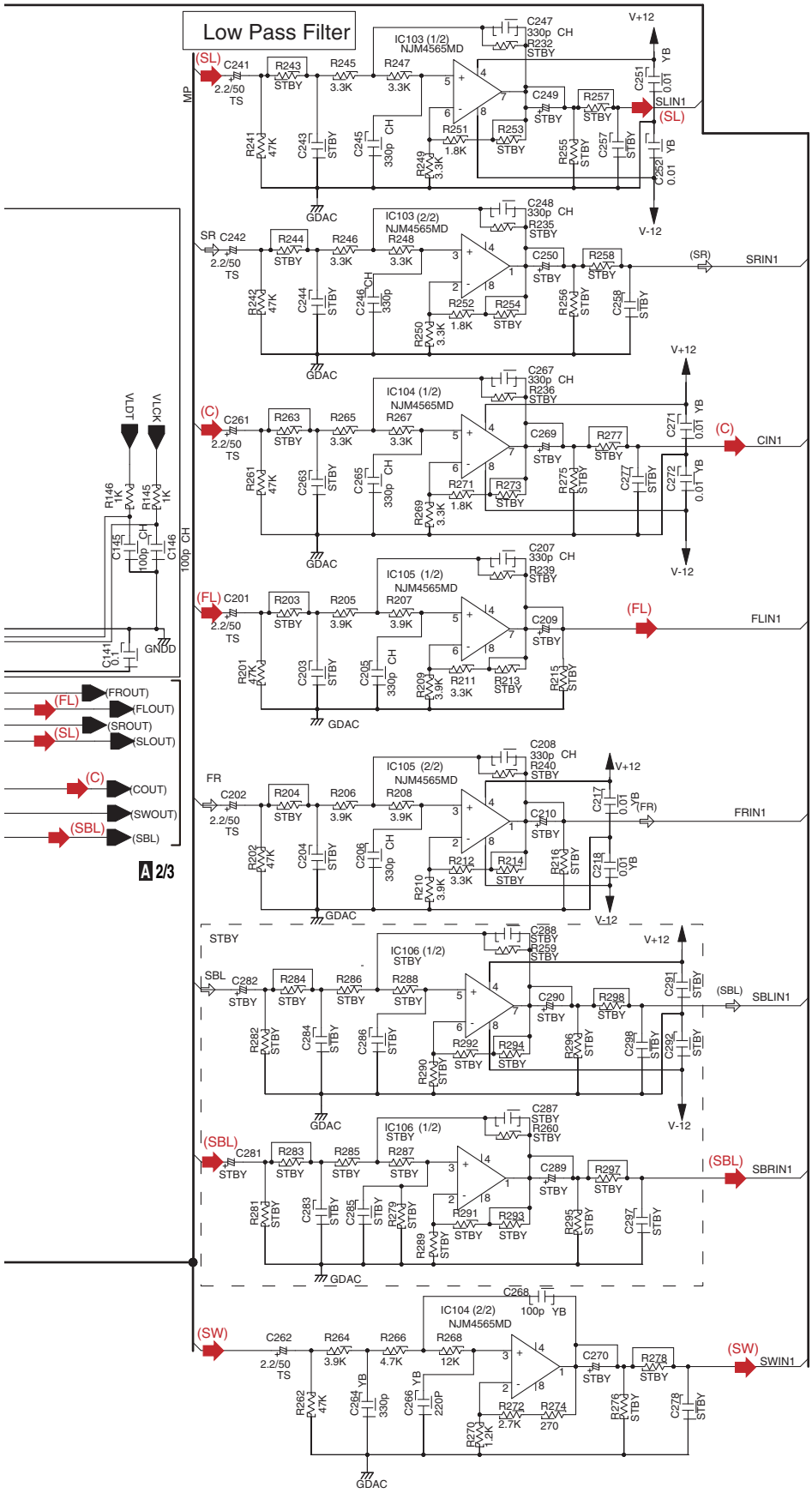
Mark	No.	Symbol and Description	VSX-518-K /KUCXJ	VSX-518-S /KUCXJ
	13	VOL Knob V4	XAB3053	XAB3057
	14	VOL Knob V5	XAB3058	XAB3060
	15	STANDBY BTN	XAD3202	XAD3203
NSP	17	F Panel Assy	XXG3359	XXG3360
	18	FUNC BTN	XAD3257	XAD3258
	19	SUB BTN	XAD3259	XAD3260
	20	TUNER BTN	XAD3261	XAD3262
	22	Pioneer Name Plate	XAM3006	VAM1129
	23	FRT Panel	XMB3308	XMB3309

10. SCHEMATIC DIAGRAM

10.1 MAIN ASSY (1/3)

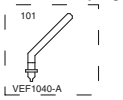


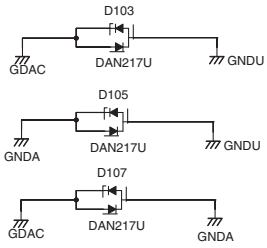
A 1/3 MAIN ASSY (XWK3355)



NOTES: NO INDICATED PARTS IS....
RESISTOR: RS1/16S***J-T, RS1/10S***J-T
CHEMICAL CAPACITOR: CEAT***M**-T,-TS
CERAMIC CAPACITOR: CCSRCH****50-T
CKSRYB****50-T
(SQ):CKSQ.CCSQ
( ) : AUDIO SIGNAL FLOW

For Wire Styling





*1	Not used

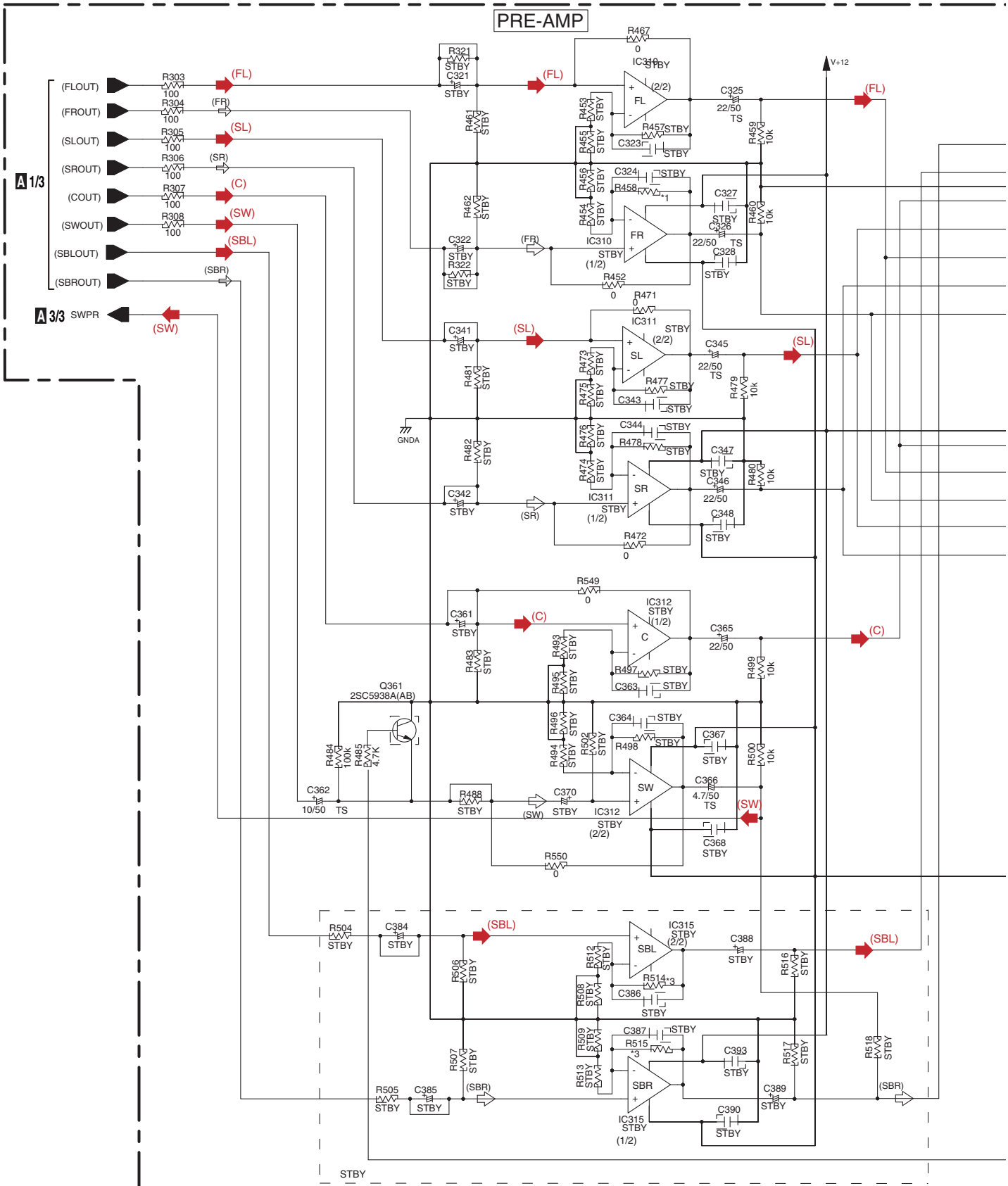
*4	VSX-518
CN125	XKB3055

MAIN ASSY(1/3)

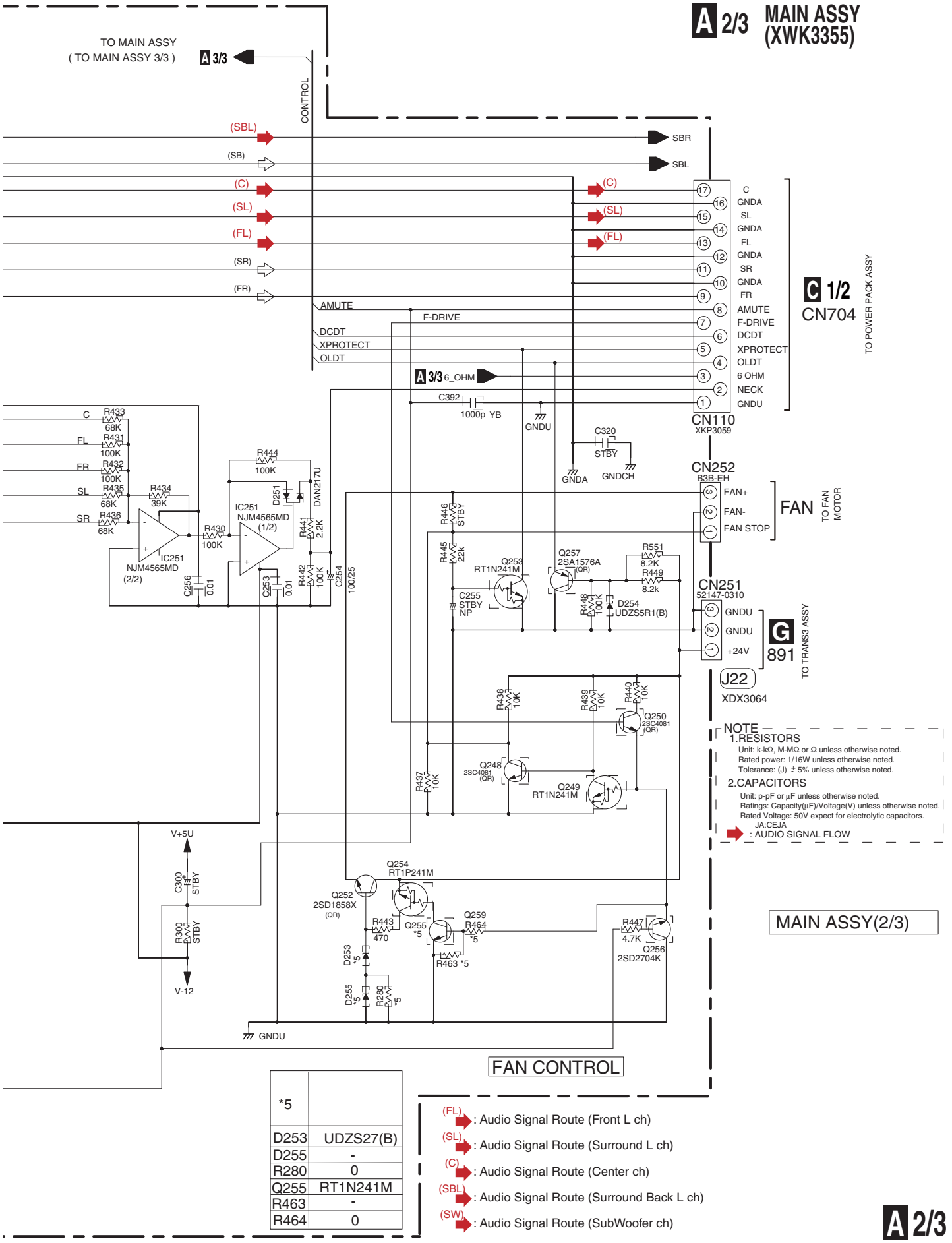
(L) : Audio Signal Route (L ch)
(M) : Audio Signal Route (Mic ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (SubWoofer ch)

A 1/3

10.2 MAIN ASSY (2/3)

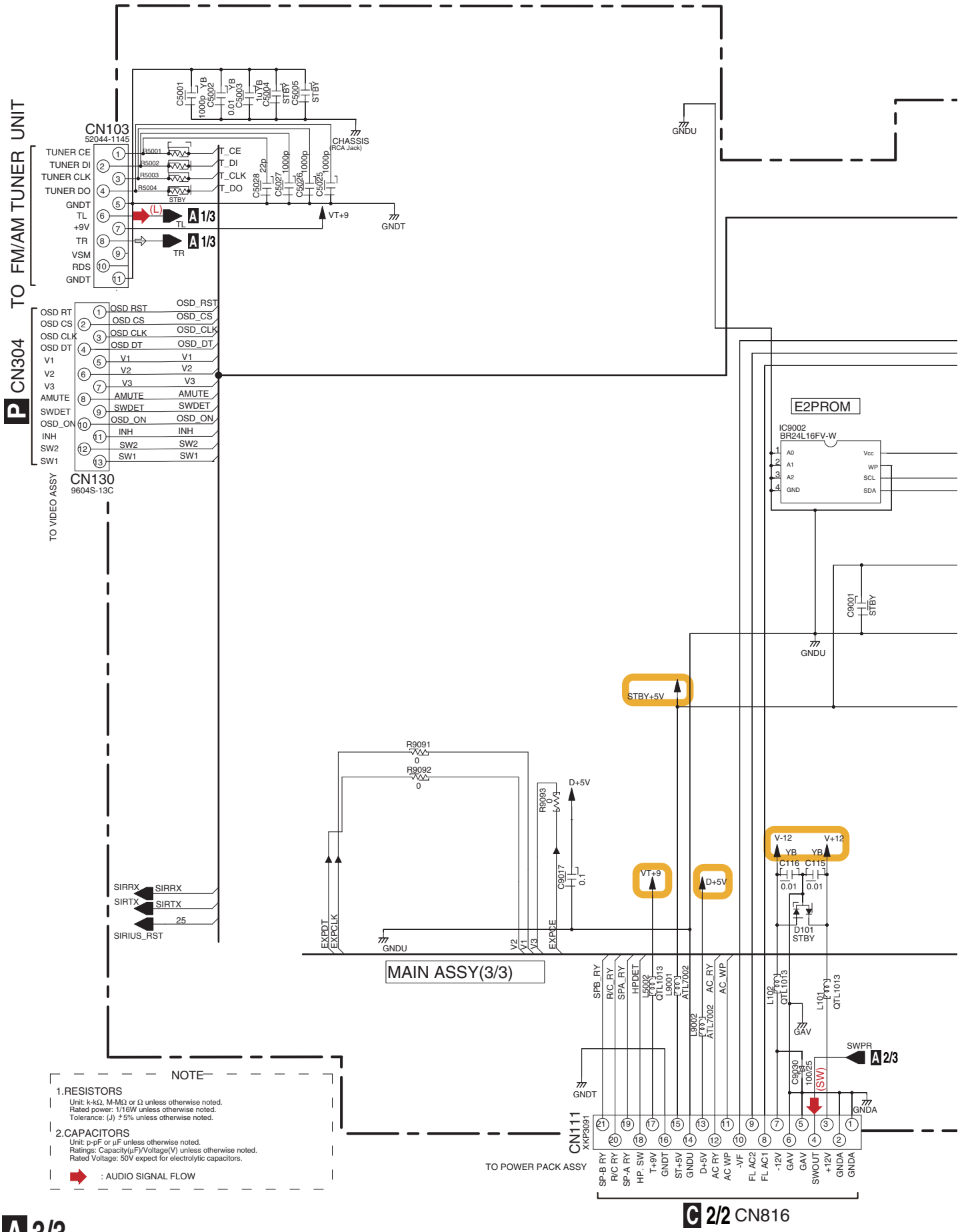


A 2/3

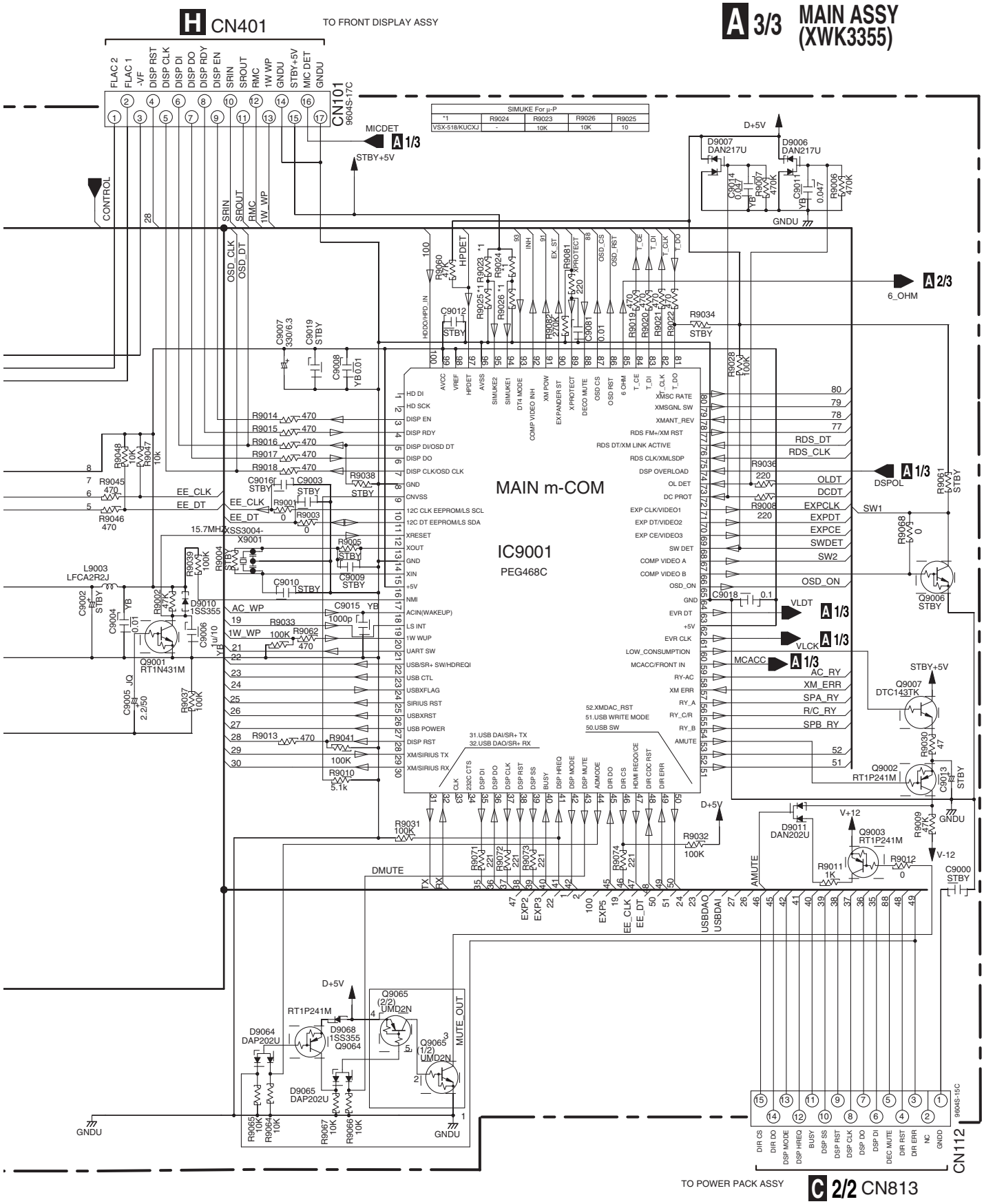


*5	
D253	UDZS27(B)
D255	-
R280	0
Q255	RT1N241M
R463	-
R464	0

10.3 MAIN ASSY (3/3)

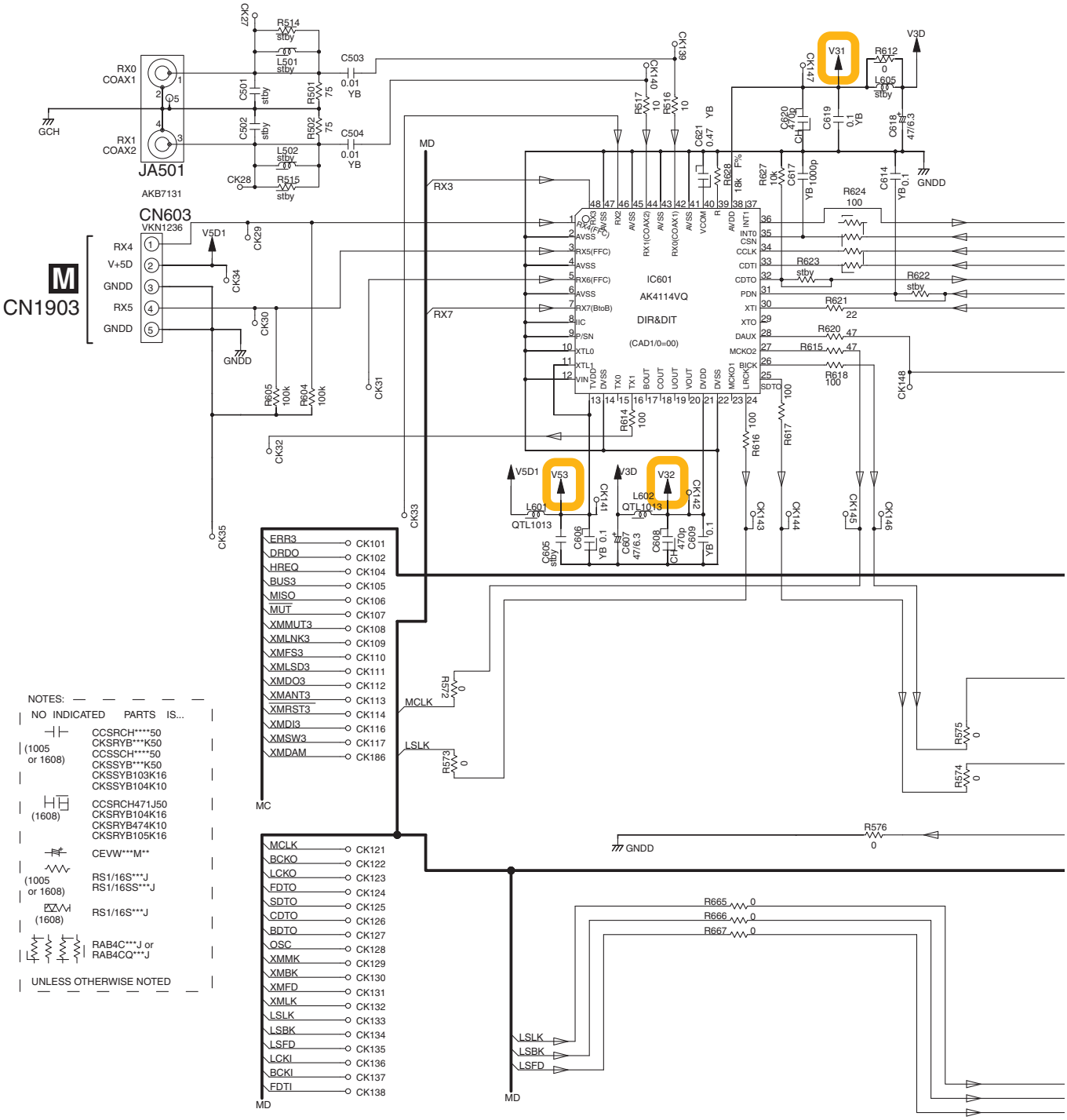


A 3/3

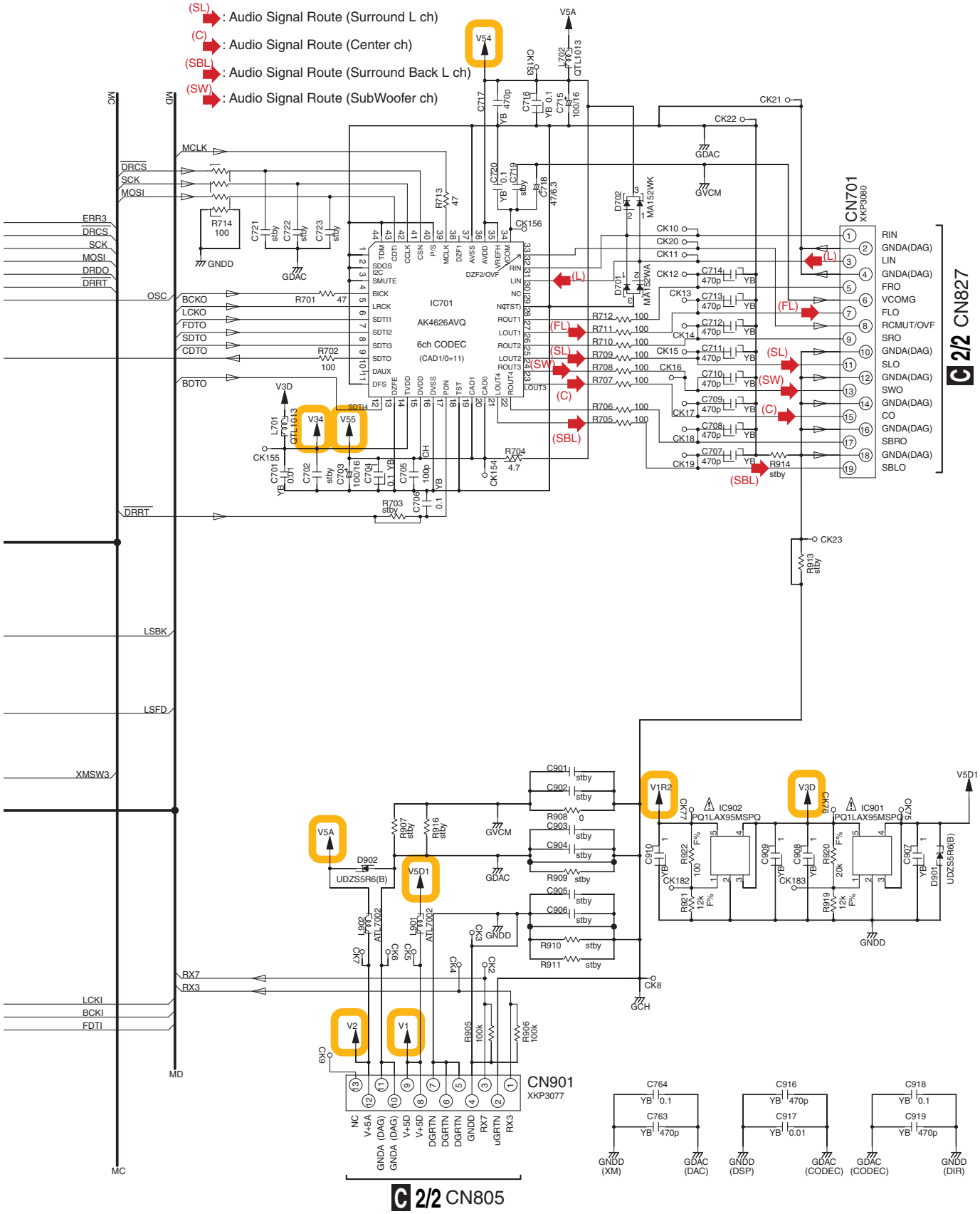

H CN401
TO FRONT DISPLAY ASSY
CN101
9604S-17C
FLAC 2
FLAC 1
-VF
DISP RST
DISP CLK
DISP DI
DISP DO
DISP RDY
DISP EN
SRIN
SROUT
RMC
1W WP
GNDU
STBY+5V
MIC DET
GNDU
MICDET
A 1/3
STBY+5V
SIMUKE For μ-P
*1 R9024 R9023 R9026 R9025
VSX-518/KUCXJ - 10K 10K 10
D+5V
D9007 DAN217U
D9006 DAN217U
C9014 0.047 YB
R9007 470K
C9011 0.047 YB
R9006 470K
GNDU
CONTROL
SRIN
SROUT
RMC
1W WP
OSD_CLK
OSD_DT
HDDO/HPD_IN
HPDET
INH
EX_ST
XPROTECT
OSD_CS
OSD_RST
T_CE
T_DI
T_CLK
T_DO
R9060 47K
R9023 *1
R9024 *1
R9025 *1
R9026 *1
R9081 220
R9082 100K
R9019 470
R9020 470
R9021 470
R9022 470
C9012 STBY
C9081 0.01
R9034 STBY
A 2/3
6_OHM
C9007 330/6.3
C9019 STBY
C9008 YB 0.01
R9028 100K
MAIN m-COM
IC9001
PEG468C
HD DI
HD SCK
DISP EN
DISP RDY
DISP DI/OSD DT
DISP DO
DISP CLK/OSD CLK
GND
CNVSS
12C CLK EEPROM/LS SCL
12C DT EEPROM/LS SDA
XRESET
XOUT
GND
XIN
+5V
NMI
ACIN(WAKEUP)
LS INT
1W WUP
UART SW
USB/SR+ SW/HDREQI
USB CTL
USBXFLAG
SIRIUS RST
USBXRST
USB POWER
DISP RST
XM/SIRIUS TX
XM/SIRIUS RX
AVCC
VREF
HPDET
AVSS
SIMUKE2
SIMUKE1
DTH MODE
COMP VIDEO INH
XM POW
EXPANDER ST
XPROTECT
DECO MUTE
OSD CS
OSD RST
6 OHM
T_CE
T_DI
T_CLK
T_DO
XMSC RATE
XMSGNL SW
XMANT_REV
RDS FM+/XM RST
RDS DT/XM LINK ACTIVE
RDS CLK/XMLSDP
DSP OVERLOAD
OL DET
DC PROT
EXP CLK/VIDEO1
EXP DT/VIDEO2
EXP CE/VIDEO3
SW DET
COMP VIDEO A
COMP VIDEO B
OSD_ON
GND
EVR DT
+5V
EVR CLK
LOW_CONSUMPTION
MCACC/FRONT IN
RY-AC
XM ERR
RY_A
RY_C/R
RY_B
AMUTE
52.XMDAC_RST
51.USB WRITE MODE
50.USB SW
31.USB DAI/SR+ TX
32.USB DAO/SR+ RX
CLK
232C CTS
DSP DI
DSP DO
DSP CLK
DSP RST
DSP SS
BUSY
DSP HREQ
DSP MODE
DSP MUTE
ADMODE
DIR DO
DIR CS
HDMI REQO/CE
DIR CDC RST
DIR ERR
R9036 220
R9008 220
OLDT
DCDT
EXPCLK
EXPDT
EXPCE
SWDET
SW2
OSD_ON
RDS_DT
RDS_CLK
A 1/3
DSPOL
R9061 STBY
SW1
R9068 0
Q9006 STBY
C9018 0.1
VLDT
VLCK
MCACC
AC_RY
XM_ERR
SPA_RY
R/C_RY
SPB_RY
STBY+5V
Q9007 DTC143TK
R9030 47
Q9002 RT1P241M
C9013 STBY
GNDU
R9014 470
R9015 470
R9016 470
R9017 470
R9018 470
R9038 STBY
R9048 10K
R9047 10k
R9045 470
R9046 470
EE_CLK
EE_DT
C9016 STBY
C9003 STBY
R9001 0
R9003 0
15.7MHz
XSS3004-X9001
R9005 STBY
R9039 100K
R9004 STBY
L9003 LFCA2R2J
C9010 STBY
C9009 STBY
C9015 YB 1000p
C9002 STBY
C9004 YB 0.01
C9006 1u/10 YB
D9010 1SS355
R9002 47K
Q9001 RT1N431M
C9005 JQ 2.250
R9037 100K
AC_WP
1W_WP
R9033 100K
R9062 470
R9013 470
R9041 100K
R9010 5.1k
R9031 100K
R9032 100K
D9011 DAN202U
V+12
Q9003 RT1P241M
R9009 47K
R9011 1K
R9012 0
V-12
C9000 STBY
DMUTE
AMUTE
R9071 221
R9072 221
R9073 221
R9074 221
TX
RX
EXP2
EXP3
EXP5
EE_CLK
EE_DT
USBDAO
USBDAI
D+5V
RT1P241M
D9064 DAP202U
D9068 1SS355
Q9064
Q9065 (2/2) UMD2N
Q9065 (1/2) UMD2N
MUTE_OUT
D9065 DAP202U
R9065 10K
R9064 10K
R9067 10K
R9066 10K
GNDU
CN112
9604S-15C
DIR CS
DIR DO
DSP MODE
DSP HREQ
BUSY
DSP SS
DSP RST
DSP CLK
DSP DO
DSP DI
DEC MUTE
DIR RST
DIR ERR
NC
GNDD
TO POWER PACK ASSY
C 2/2 CN813
(L) : Audio Signal Route (L ch)
(SW) : Audio Signal Route (SubWoofer ch)

10.4 DSP ASSY (1/2)

B 1/2 DSP ASSY (AWX8980)

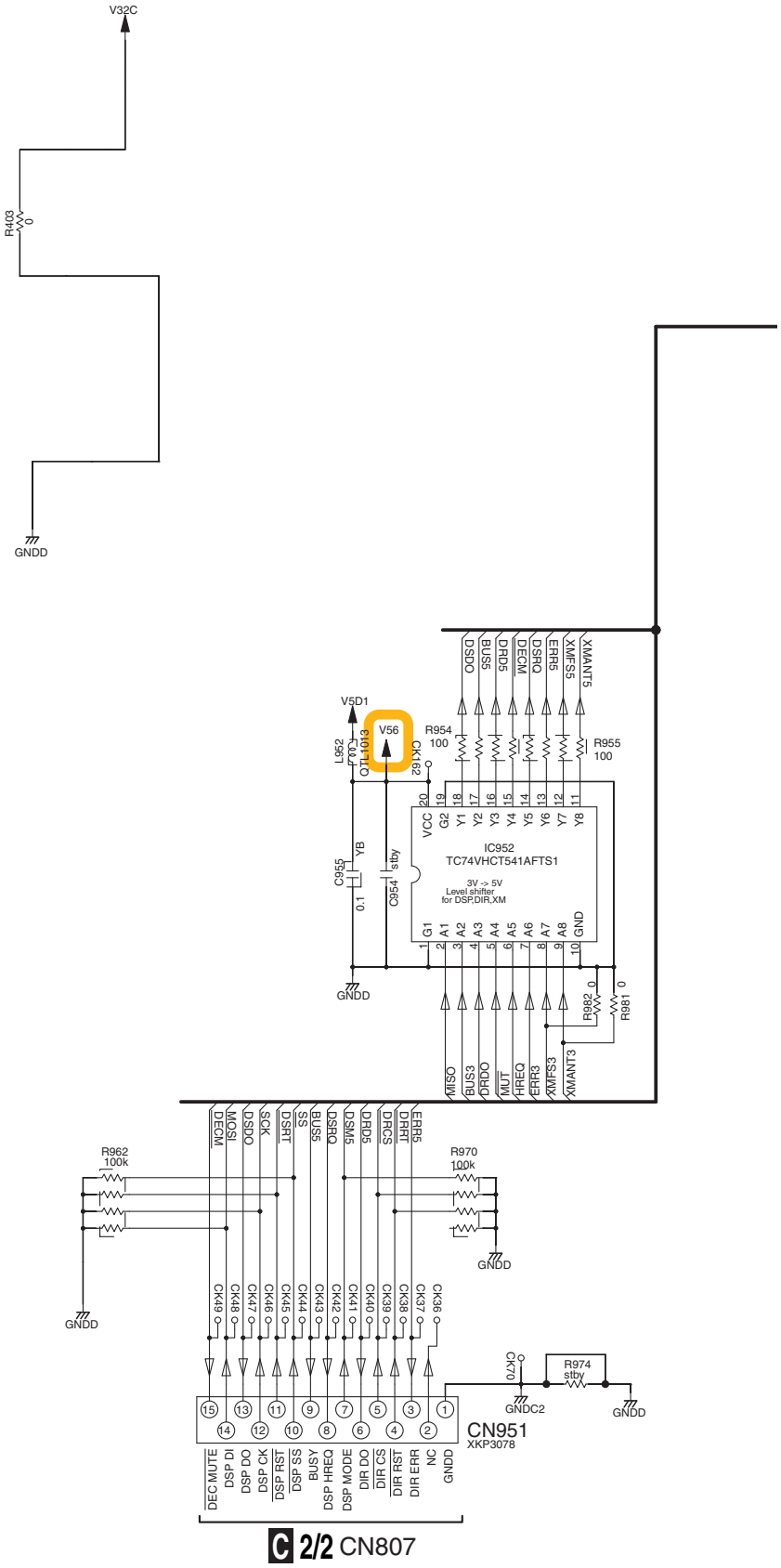


(L): Audio Signal Route (L ch)
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SBL): Audio Signal Route (Surround Back L ch)
(SW): Audio Signal Route (SubWoofer ch)

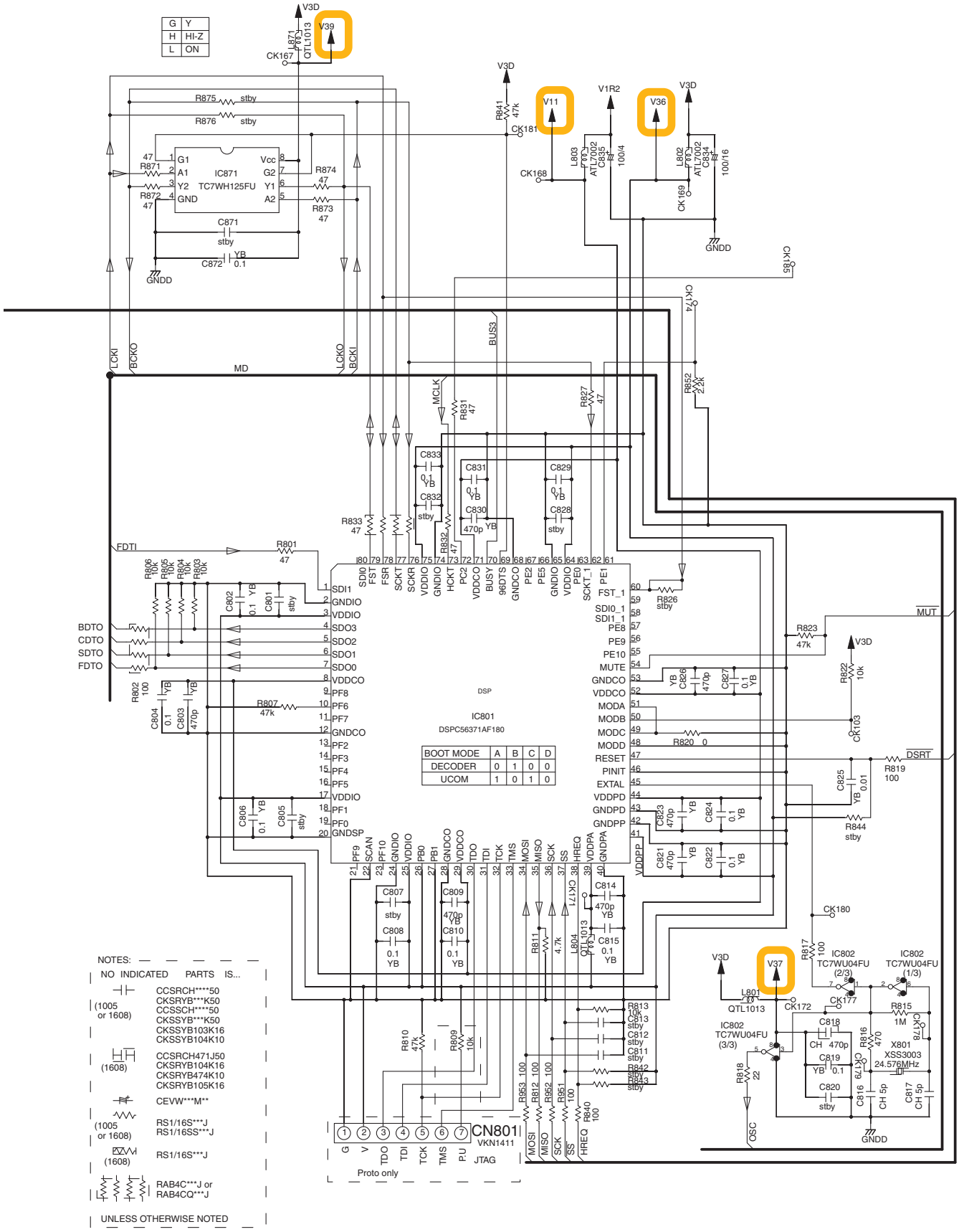


10.5 DSP ASSY (2/2)

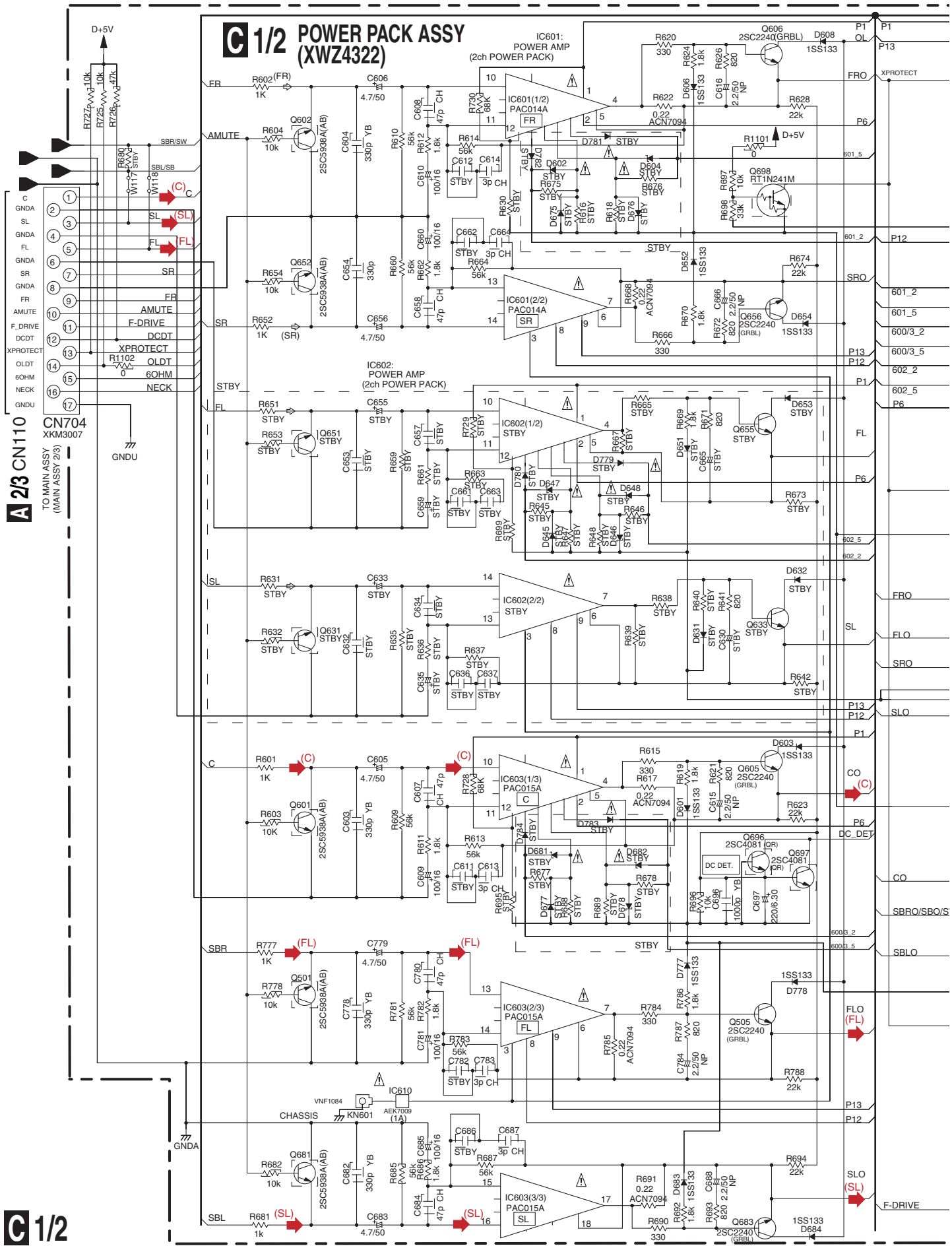
B 2/2 DSP ASSY (AWX8980)

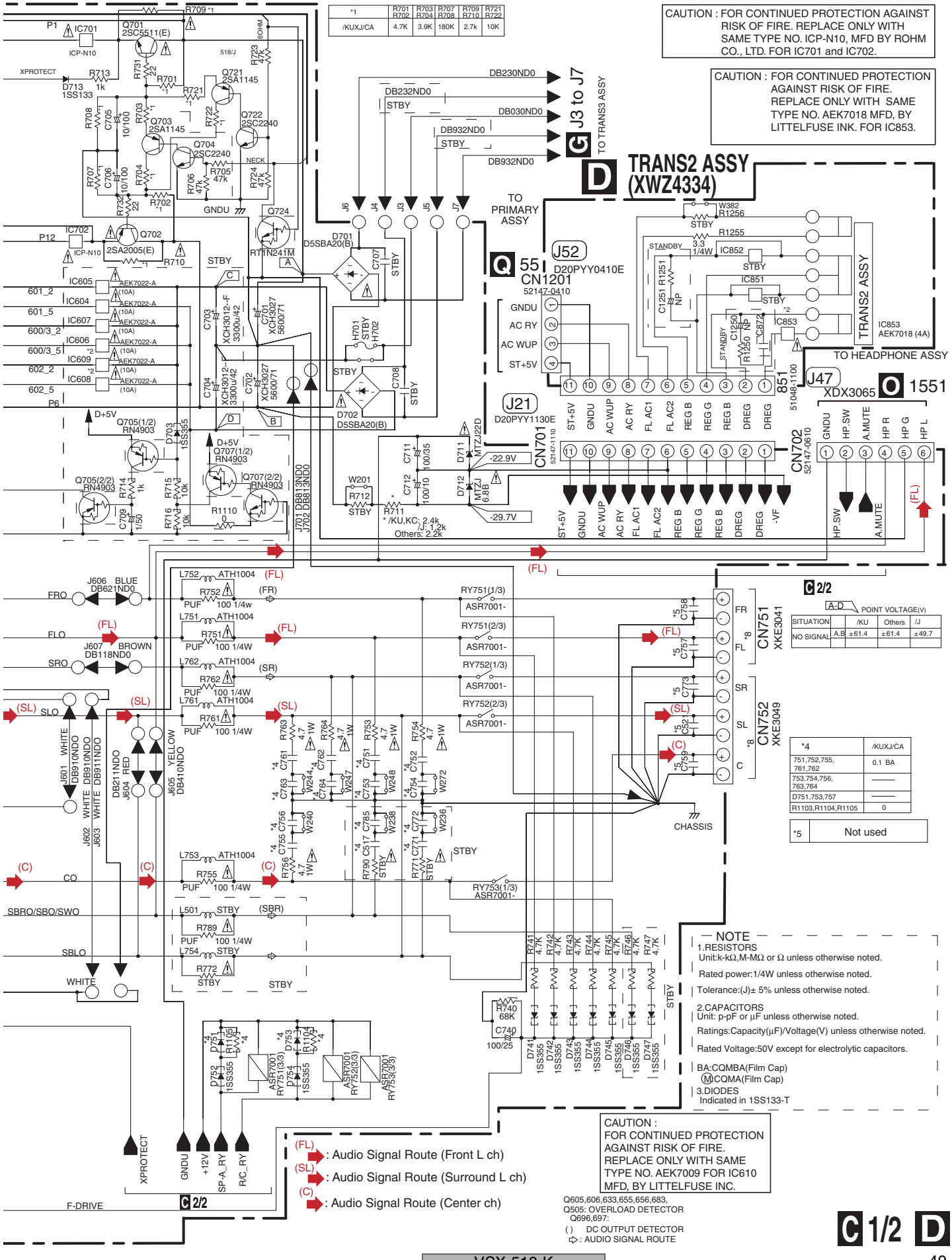


B 2/2


G Y
H HI-Z
L ON
IC871
TC7WH125FU
IC801
DSPC56371AF180
DSP
BOOT MODE A B C D
DECODER 0 1 0 0
UCOM 1 0 1 0
CN801
VKN1411
JTAG
Proto only
NOTES:
NO INDICATED PARTS IS...
UNLESS OTHERWISE NOTED

10.6 POWER PACK (1/2) and TRANS2 ASSY




CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N10, MFD BY ROHM CO., LTD. FOR IC701 and IC702.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7018 MFD, BY LITTELFUSE INK. FOR IC853.
TRANS2 ASSY (XWZ4334)
TO PRIMARY ASSY
TO TRANS3 ASSY
TO HEADPHONE ASSY
CN1201 52147-0410
CN701 52147-1110
CN702 52147-0610
CN751 XKE3041
CN752 XKE3049
XDX3065
IC853 AEK7018 (4A)
CHASSIS
Not used
NOTE
1.RESISTORS
Unit:k-kΩ,M-MΩ or Ω unless otherwise noted.
Rated power:1/4W unless otherwise noted.
Tolerance:(J)± 5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings:Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage:50V except for electrolytic capacitors.
BA:CQMBA(Film Cap)
MCQMA(Film Cap)
3.DIODES
Indicated in 1SS133-T
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7009 FOR IC610 MFD, BY LITTELFUSE INC.
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
Q605,606,633,655,656,683,
Q505: OVERLOAD DETECTOR
Q696,697:
( ) DC OUTPUT DETECTOR
: AUDIO SIGNAL ROUTE
C 1/2 D
C 2/2

*1	R701 R702	R703 R704	R707 R708	R709 R710	R721 R722
/KUXJ/CA	4.7K	3.9K	180K	2.7K	10K

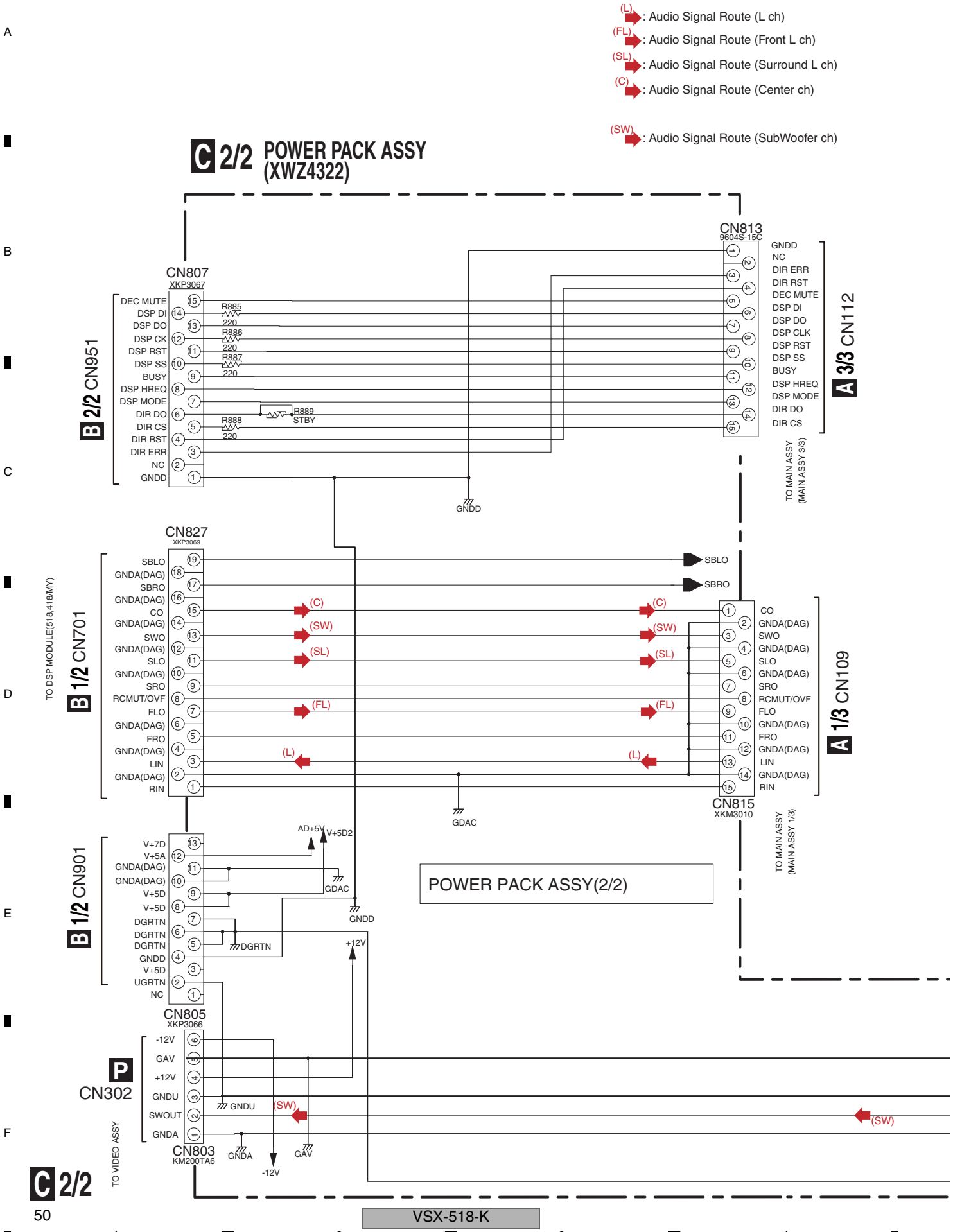
SITUATION		/KU	Others	/J
NO SIGNAL	A-D	±61.4	±61.4	±49.7

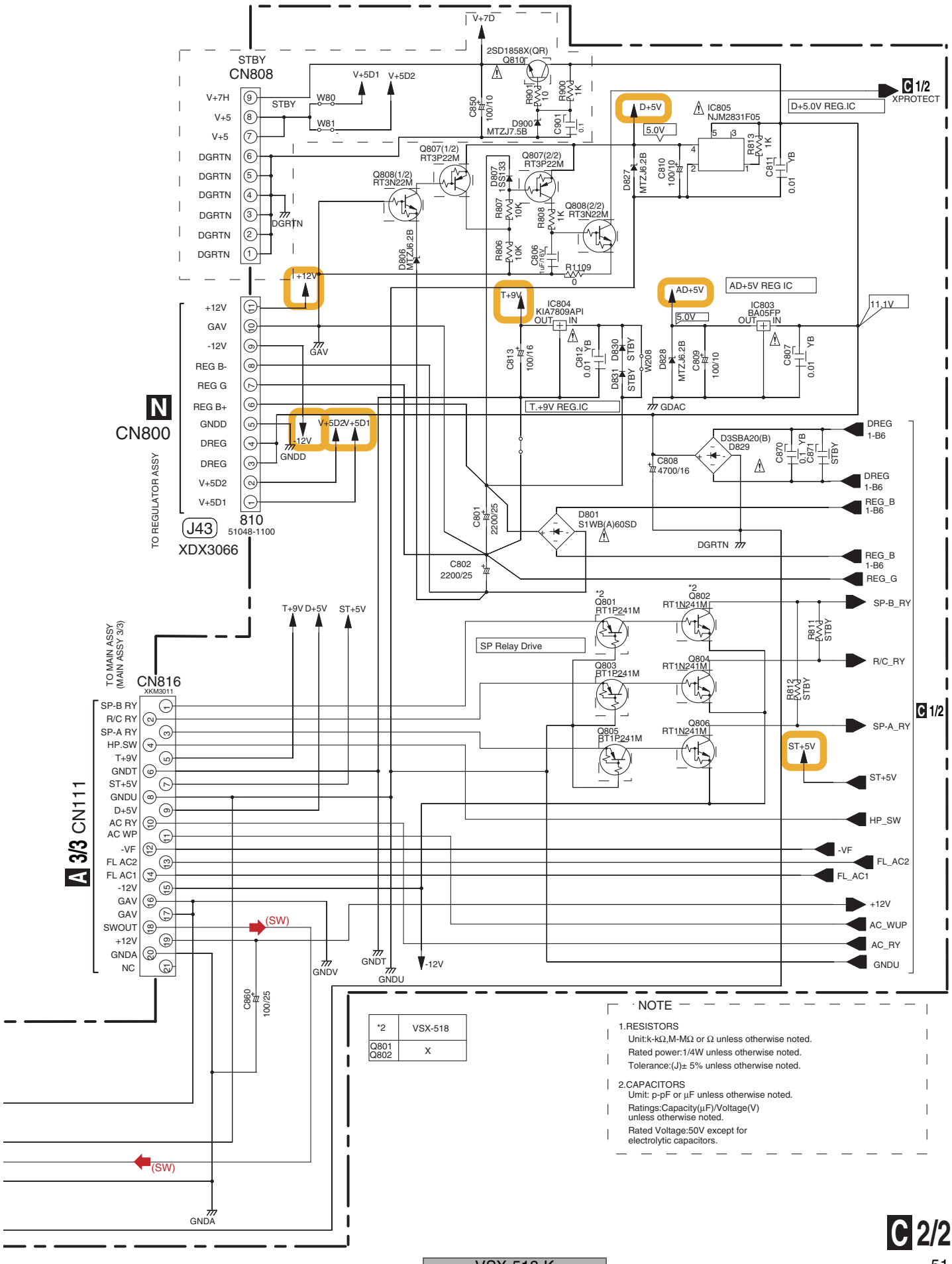
POINT VOLTAGE(V)

*4	/KUXJ/CA
751,752,755, 761,762	0.1 BA
753,754,756, 763,764	——
D751,753,757	——
R1103,R1104,R1105	0

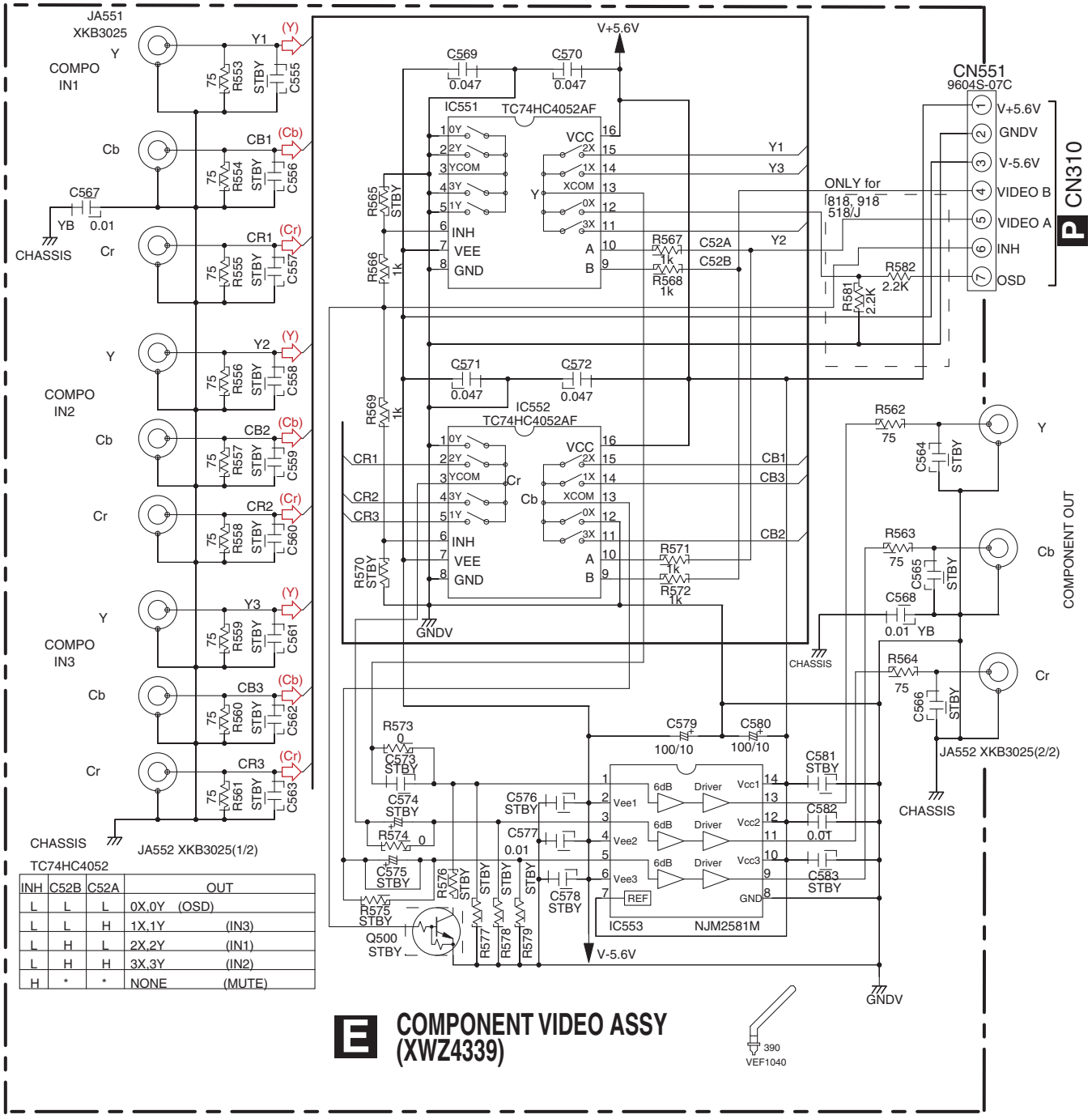
*5	Not used

10.7 POWER PACK ASSY (2/2)




STBY
CN808
V+7H
V+5
V+5
DGRTN
DGRTN
DGRTN
DGRTN
DGRTN
DGRTN
V+7D
2SD1858X(QR)
Q810
V+5D1
V+5D2
W80
W81
STBY
D+5V
5.0V
IC805
NJM2831F05
D+5.0V REG.IC
C 1/2
XPROTECT
Q807(1/2)
RT3P22M
Q807(2/2)
RT3P22M
Q808(1/2)
RT3N22M
Q808(2/2)
RT3N22M
D807
1SS133
D806
MTZJ6.2B
D827
MTZJ6.2B
+12V
T+9V
AD+5V
AD+5V REG IC
IC804
KIA7809API
IC803
BA05FP
11.1V
GAV
-12V
REG B-
REG G
REG B+
GNDD
DREG
DREG
V+5D2
V+5D1
N
CN800
TO REGULATOR ASSY
J43
810
51048-1100
XDX3066
T.+9V REG.IC
GDAC
D3SBA20(B)
D829
C808
4700/16
D801
S1WB(A)60SD
C801
2200/25
C802
2200/25
DREG
1-B6
REG_B
1-B6
REG_G
SP-B_RY
R/C_RY
SP-A_RY
ST+5V
HP_SW
-VF
FL_AC2
FL_AC1
+12V
AC_WUP
AC_RY
GNDU
C 1/2
T+9V D+5V ST+5V
SP Relay Drive
Q801
RT1P241M
Q802
RT1N241M
Q803
RT1P241M
Q804
RT1N241M
Q805
RT1P241M
Q806
RT1N241M
*2
TO MAIN ASSY
(MAIN ASSY 3/3)
CN816
XKM3011
A 3/3 CN111
SP-B RY
R/C RY
SP-A RY
HP.SW
T+9V
GNDT
ST+5V
GNDU
D+5V
AC RY
AC WP
-VF
FL AC2
FL AC1
-12V
GAV
GAV
SWOUT
+12V
GNDA
NC
(SW)
GNDV
GNDT
GNDU
-12V
C860
47
100/25
(SW)
GNDA
*2 | VSX-518
Q801 Q802 | X
NOTE
1.RESISTORS
Unit:k-kΩ,M-MΩ or Ω unless otherwise noted.
Rated power:1/4W unless otherwise noted.
Tolerance:(J)± 5% unless otherwise noted.
2.CAPACITORS
Umit: p-pF or µF unless otherwise noted.
Ratings:Capacity(µF)/Voltage(V)
unless otherwise noted.
Rated Voltage:50V except for
electrolytic capacitors.
C 2/2

10.8 COMPONENT VIDEO, 5.1CH INPUT and TRANS3 ASSYS



TC74HC4052

INH	C52B	C52A	OUT
L	L	L	0X,0Y (OSD)
L	L	H	1X,1Y (IN3)
L	H	L	2X,2Y (IN1)
L	H	H	3X,3Y (IN2)
H	*	*	NONE (MUTE)

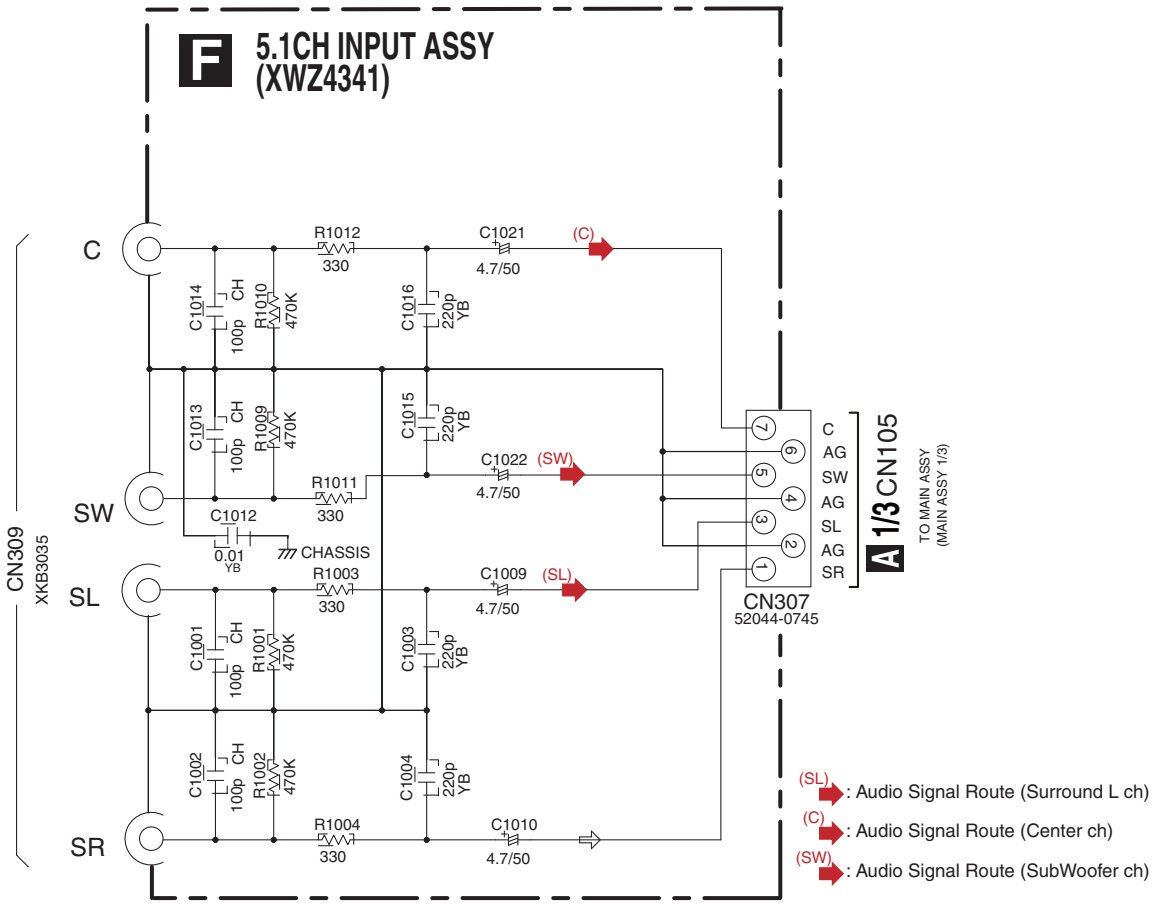
E COMPONENT VIDEO ASSY (XWZ4339)

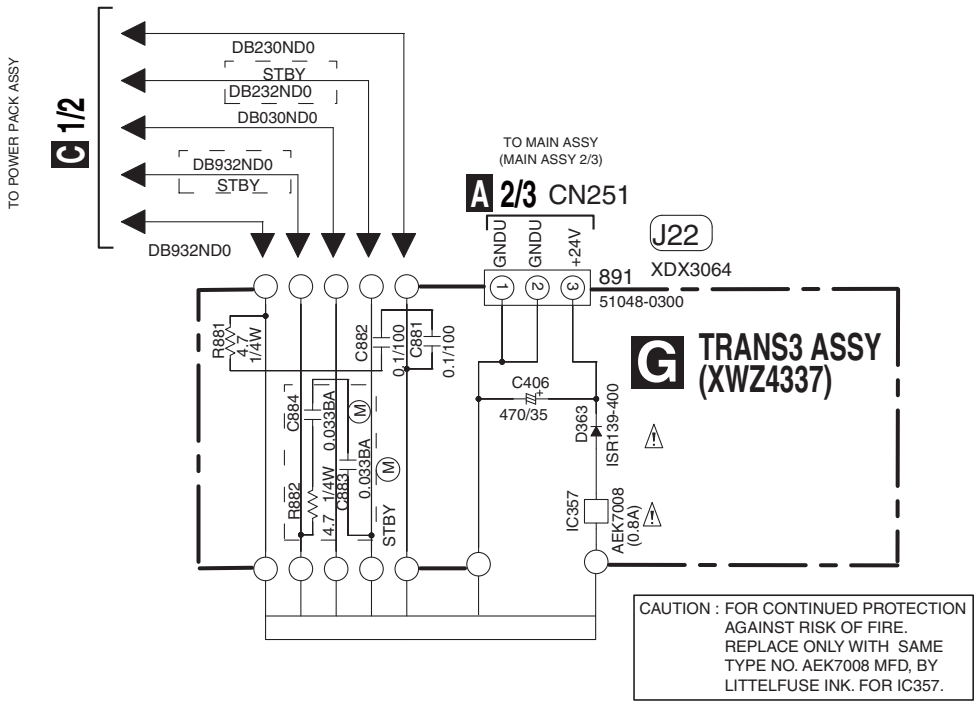
(Y): Video Signal Route (Component Y ch)
(Cb): Video Signal Route (Component Cb ch)
(Cr): Video Signal Route (Component Cr ch)

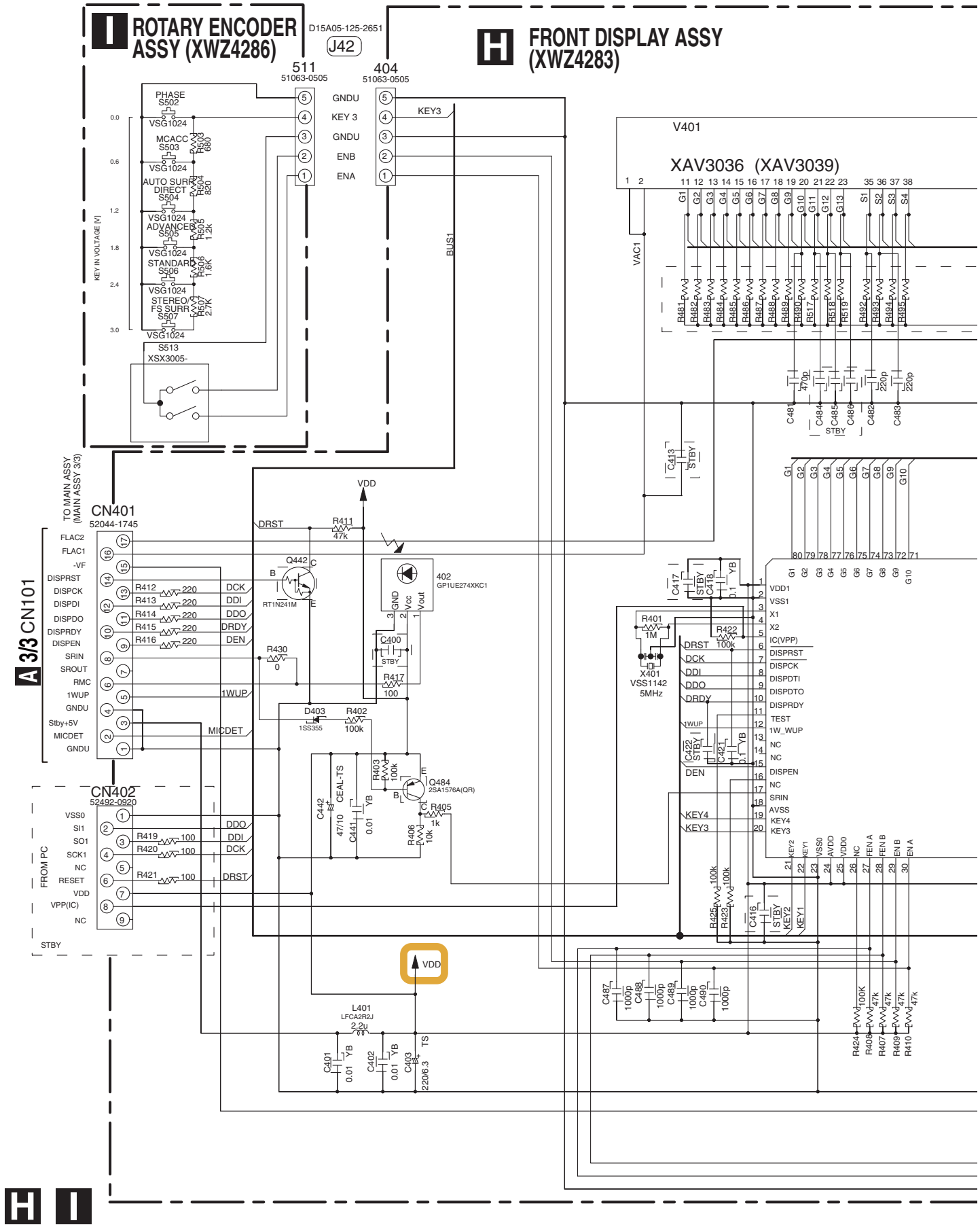
NOTE

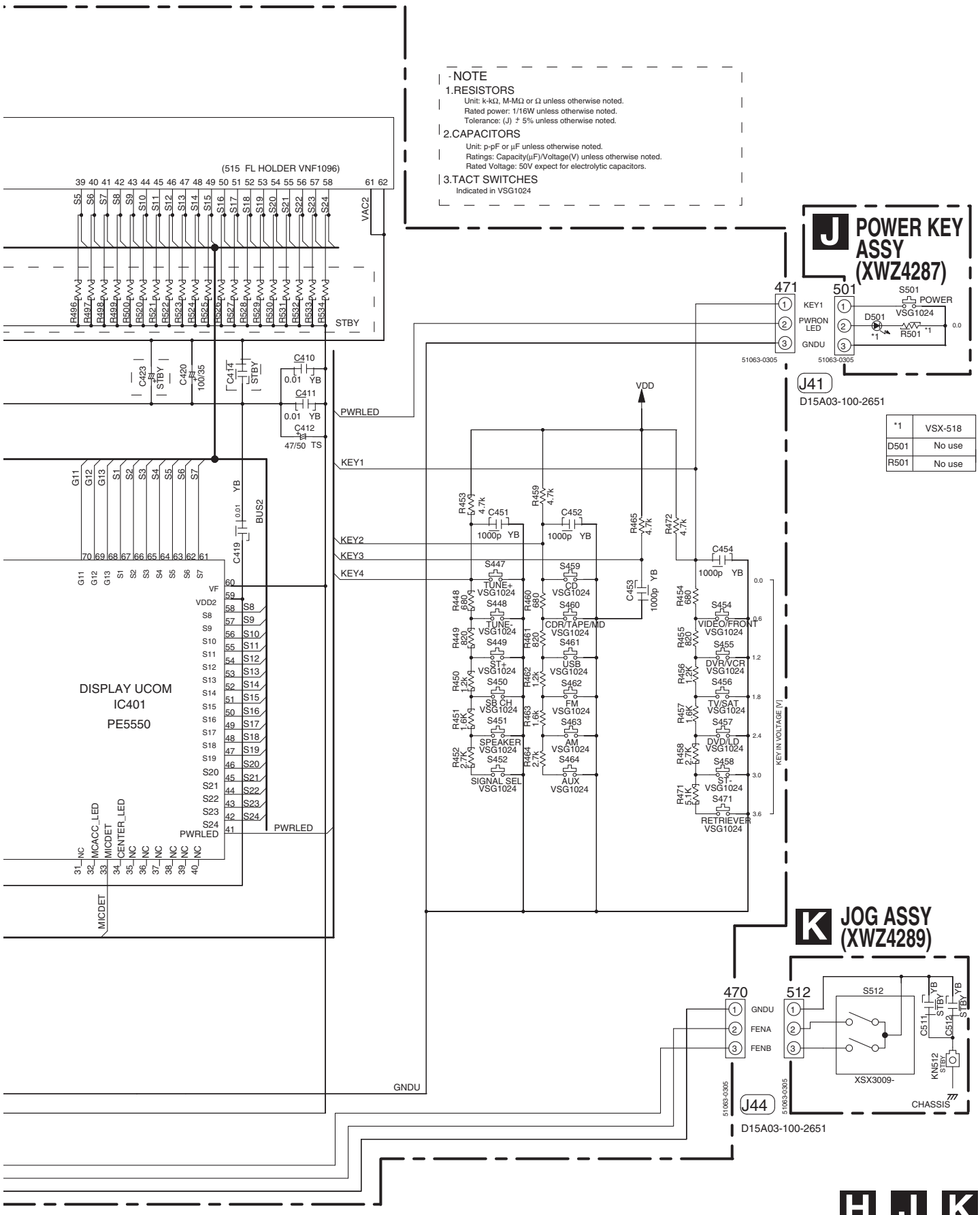
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

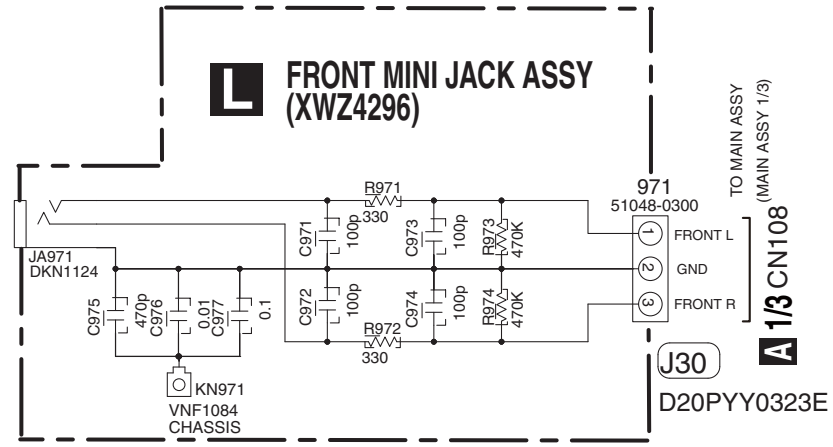

F 5.1CH INPUT ASSY
(XWZ4341)
CN309
XKB3035
C
SW
SL
SR
R1012
330
C1021
4.7/50
(C)
C1014
100p CH
R1010
470K
C1016
220p YB
C1013
100p CH
R1009
470K
C1015
220p YB
C1022
4.7/50
(SW)
R1011
330
C1012
0.01 YB
CHASSIS
R1003
330
C1009
4.7/50
(SL)
C1001
100p CH
R1001
470K
C1003
220p YB
C1002
100p CH
R1002
470K
C1004
220p YB
R1004
330
C1010
4.7/50
CN307
52044-0745
C
AG
SW
AG
SL
AG
SR
A 1/3 CN105
TO MAIN ASSY
(MAIN ASSY 1/3)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SW) : Audio Signal Route (SubWoofer ch)

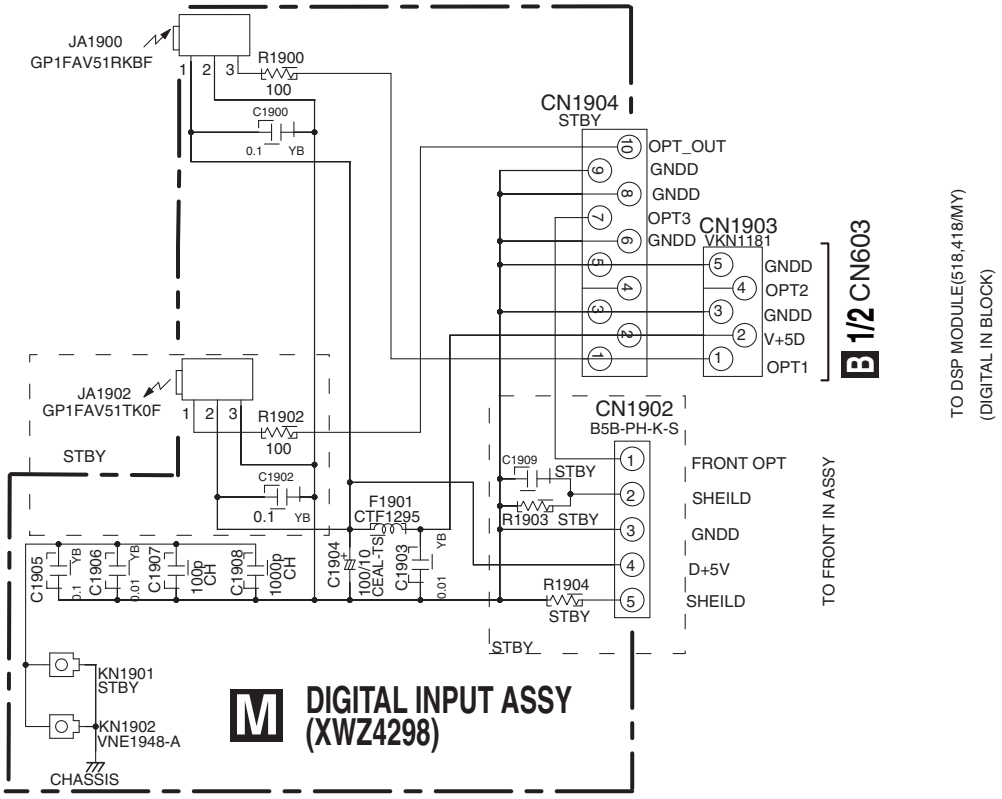

TO POWER PACK ASSY
C 1/2
DB230ND0
STBY
DB232ND0
DB030ND0
DB932ND0
STBY
DB932ND0
TO MAIN ASSY
(MAIN ASSY 2/3)
A 2/3 CN251
GNDU
GNDU
+24V
J22
XDX3064
891
51048-0300
R881 4.7 1/4W
C882 0.1/100
C881 0.1/100
C406 470/35
D363 ISR139-400
C884 0.033BA
R882 4.7 1/4W
C883 0.033BA
STBY
IC357 AEK7008 (0.8A)
G TRANS3 ASSY
(XWZ4337)
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. AEK7008 MFD, BY LITTELFUSE INK. FOR IC357.


I ROTARY ENCODER ASSY (XWZ4286)
D15A05-125-2651
J42
511
51063-0505
404
51063-0505
H FRONT DISPLAY ASSY (XWZ4283)
PHASE S502
MCACC S503
AUTO SURR DIRECT S504
ADVANCED S505
STANDARD S506
STEREO/FS SURR S507
VSG1024
KEY IN VOLTAGE [V]
S513
XSX3005-
GNDU
KEY 3
GNDU
ENB
ENA
KEY3
BUS1
V401
XAV3036 (XAV3039)
VAC1
TO MAIN ASSY (MAIN ASSY 3/3)
CN401
52044-1745
A 3/3 CN101
FLAC2
FLAC1
-VF
DISPRST
DISPCK
DISPDI
DISPDO
DISPRDY
DISPEN
SRIN
SROUT
RMC
1WUP
GNDU
Stby+5V
MICDET
GNDU
DCK
DDI
DDO
DRDY
DEN
1WUP
MICDET
DRST
R411 47k
Q442 RT1N241M
R430 0
D403 1SS355
R402 100k
402 GP1UE274XKC1
C400
R417 100
VDD
CN402
52492-0920
FROM PC
VSS0
SI1
SO1
SCK1
NC
RESET
VDD
VPP(IC)
NC
STBY
R419 100
R420 100
R421 100
DDO
DDI
DCK
DRST
Q484 2SA1576A(QR)
R403 100k
R405 1k
R406 10k
C441 0.01
C442 47/10
CEAL-TS
L401 LFCA2R2J 2.2u
C401 0.01
C402 0.01
C403 220/6.3
TS
X401 VSS1142 5MHz
R401 1M
R422 100k
C417
C418 0.1
C421 0.1
C422
C416
R425 100k
R423 100k
KEY4
KEY3
KEY2
KEY1
C481 470p
C484
C485
C486
C482
C483 220p
C413
STBY
C487 1000p
C488
C489 1000p
C490
1000p
R424 100K
R408 47k
R407 47k
R409 47k
R410 47k
VDD1
VSS1
X1
X2
IC(VPP)
DISPRST
DISPCK
DISPDTI
DISPDTO
DISPRDY
TEST
1W_WUP
NC
NC
DISPEN
NC
SRIN
AVSS
KEY4
KEY3
KEY2
KEY1
VSS0
AVDD
VDD0
NC
FEN A
FEN B
EN B
EN A


NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
3.TACT SWITCHES
Indicated in VSG1024
(515 FL HOLDER VNF1096)
DISPLAY UCOM
IC401
PE5550
J POWER KEY ASSY (XWZ4287)
J41
D15A03-100-2651
K JOG ASSY (XWZ4289)
J44
D15A03-100-2651
*1 VSX-518
D501 No use
R501 No use
KEY1
KEY2
KEY3
KEY4
PWRLED
GNDU
VDD
STBY
MICDET
TUNE+ VSG1024
TUNE- VSG1024
ST+ VSG1024
SB CH VSG1024
SPEAKER VSG1024
SIGNAL SEL VSG1024
CD VSG1024
CDR/TAPE/MD VSG1024
USB VSG1024
FM VSG1024
AM VSG1024
AUX VSG1024
VIDEO/FRONT VSG1024
DVR/VCR VSG1024
TV/SAT VSG1024
DVD/LD VSG1024
ST- VSG1024
RETRIEVER VSG1024
KEY IN VOLTAGE [V]
XSX3009-
CHASSIS

10.10 FRONT MINI JACK, DIGITAL INPUT, REGULATOR and HEAD PHONE ASSYS





NOTE

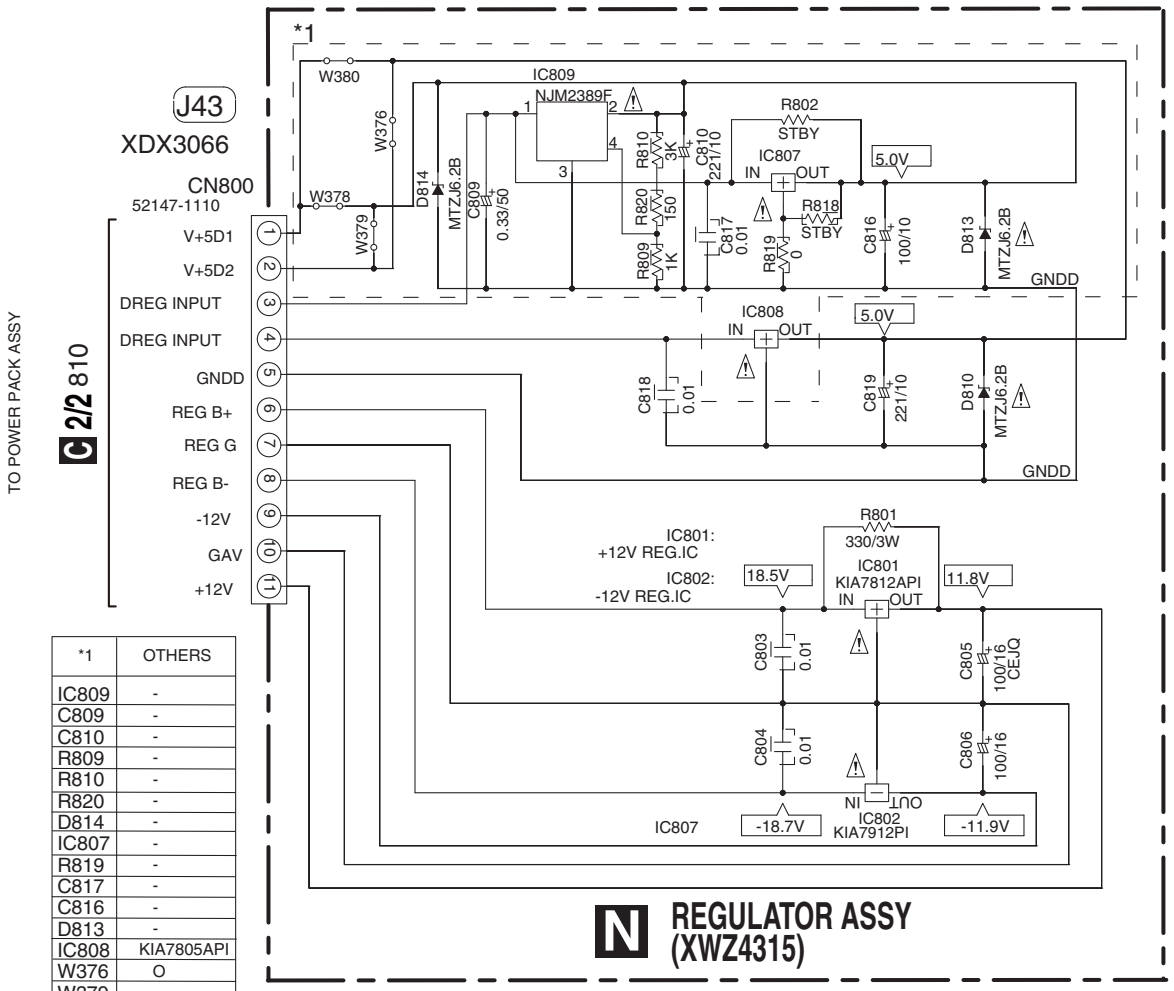
1.RESISTORS

Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

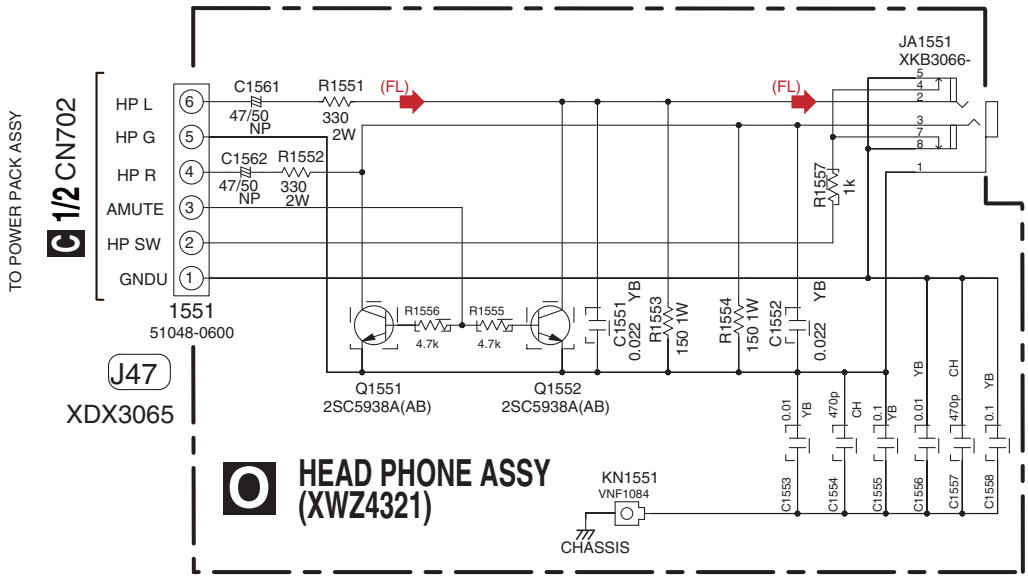
2.CAPACITORS

Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

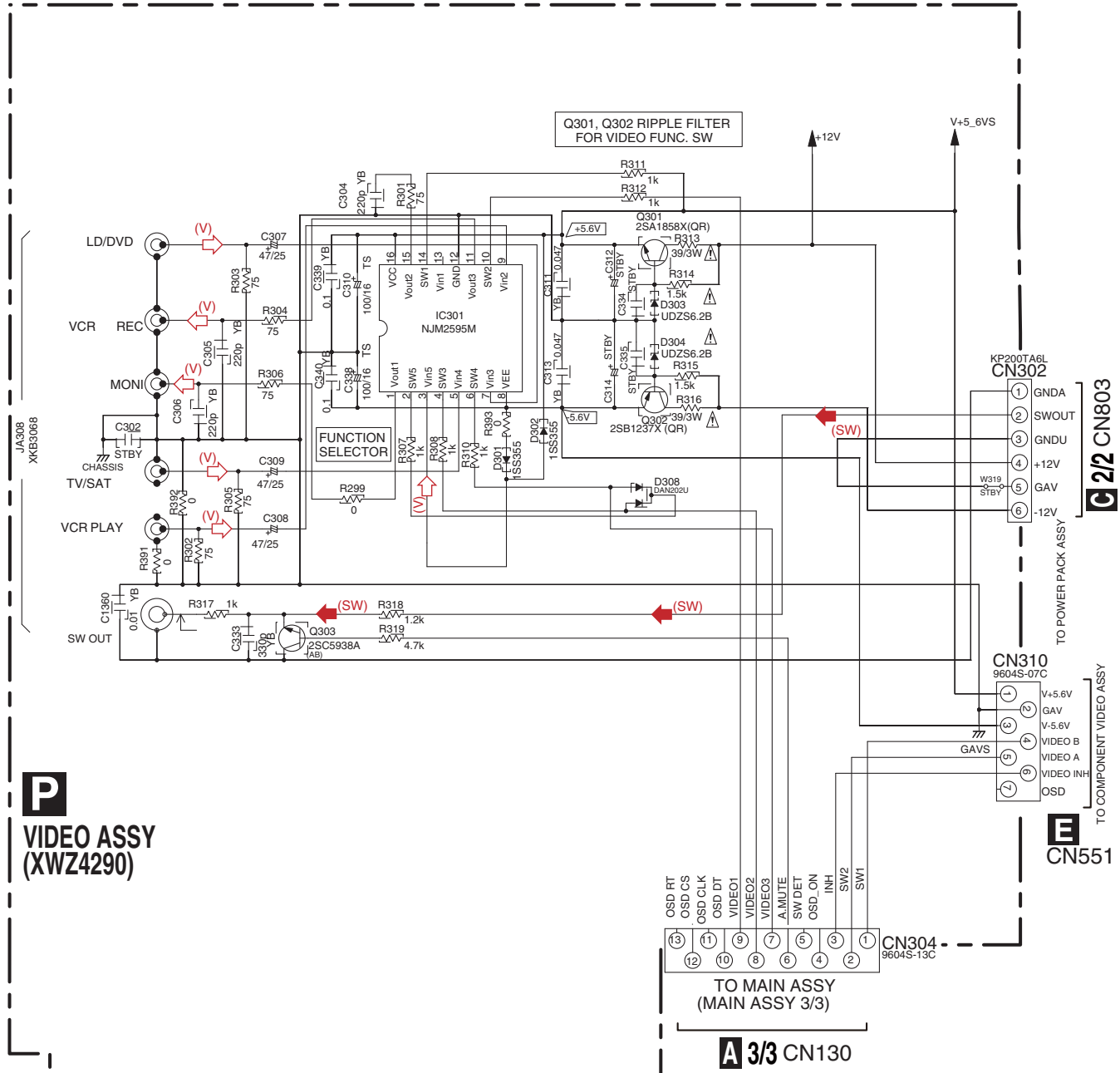
L M

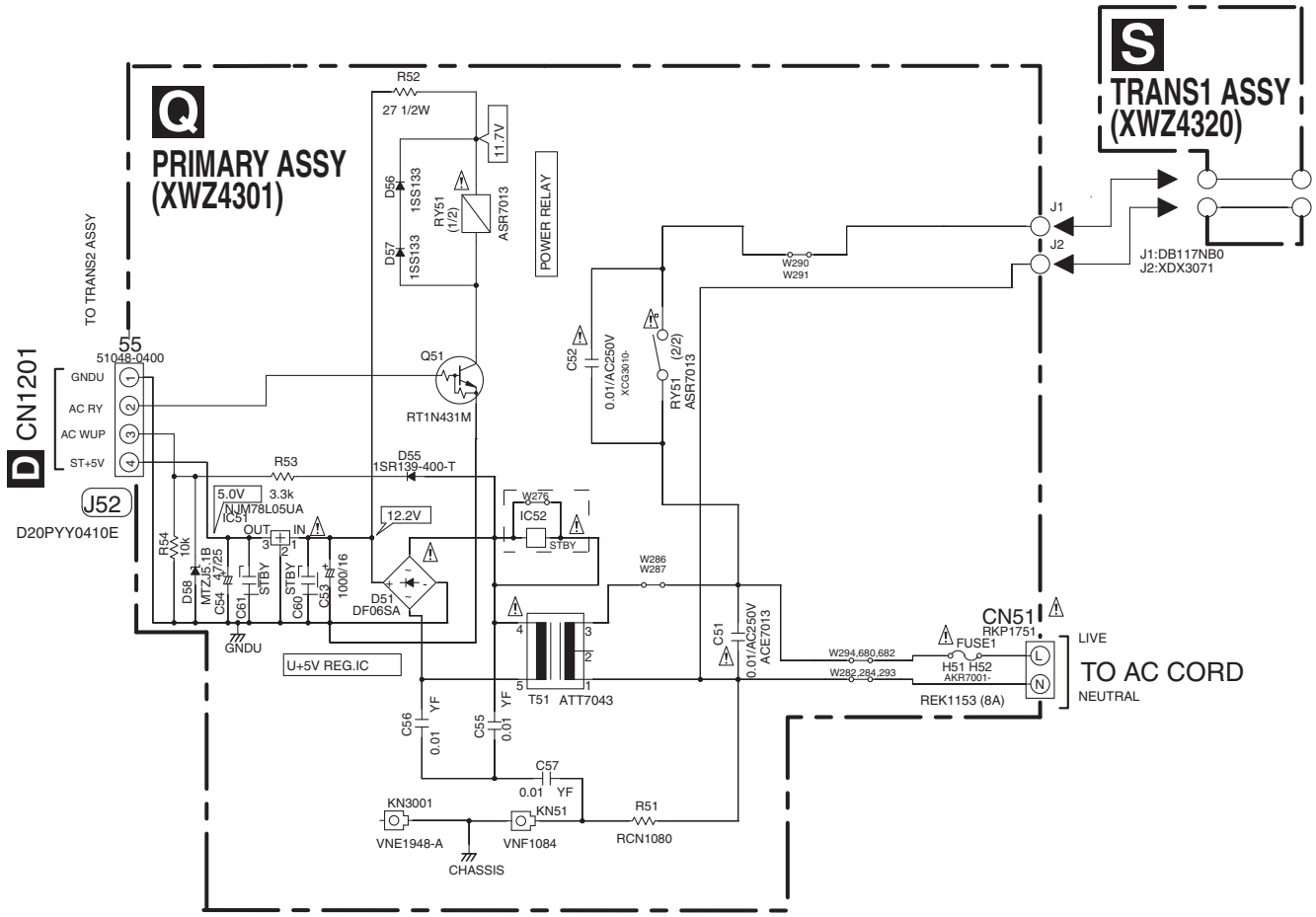


*1	OTHERS
IC809	-
C809	-
C810	-
R809	-
R810	-
R820	-
D814	-
IC807	-
R819	-
C817	-
C816	-
D813	-
IC808	KIA7805API
W376	O
W379	-
W380	-
W378	-



10.11 VIDEO, PRIMARY and TRANS1 ASSYS





• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ± 5% unless otherwise noted.

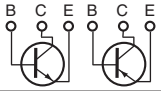
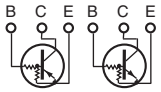
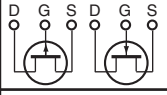
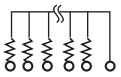
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(uF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.

(V) : Video Signal Route
(L) : Audio Signal Route (L ch)
(SW) : Audio Signal Route (SubWoofer ch)

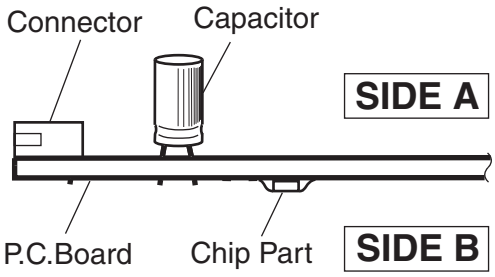
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

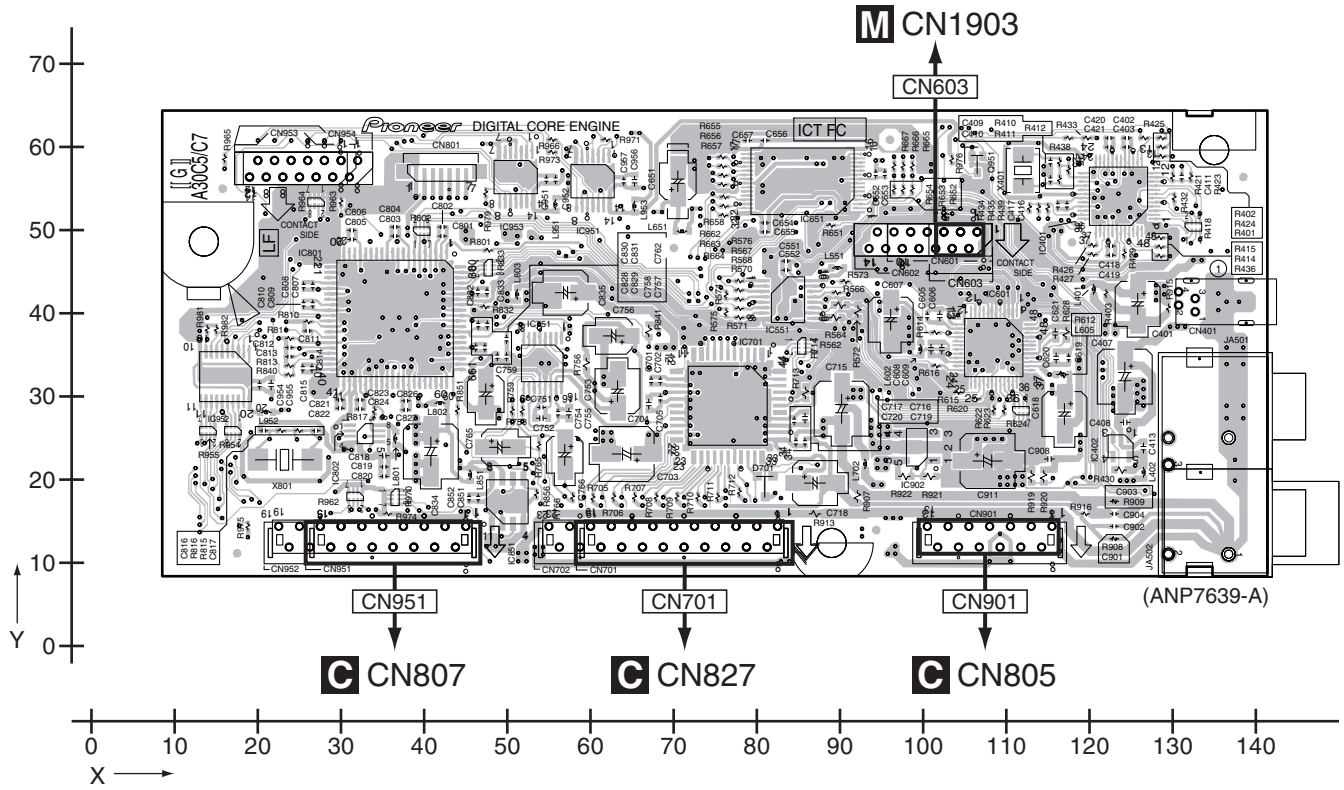


11.1 DSP ASSY

SIDE A

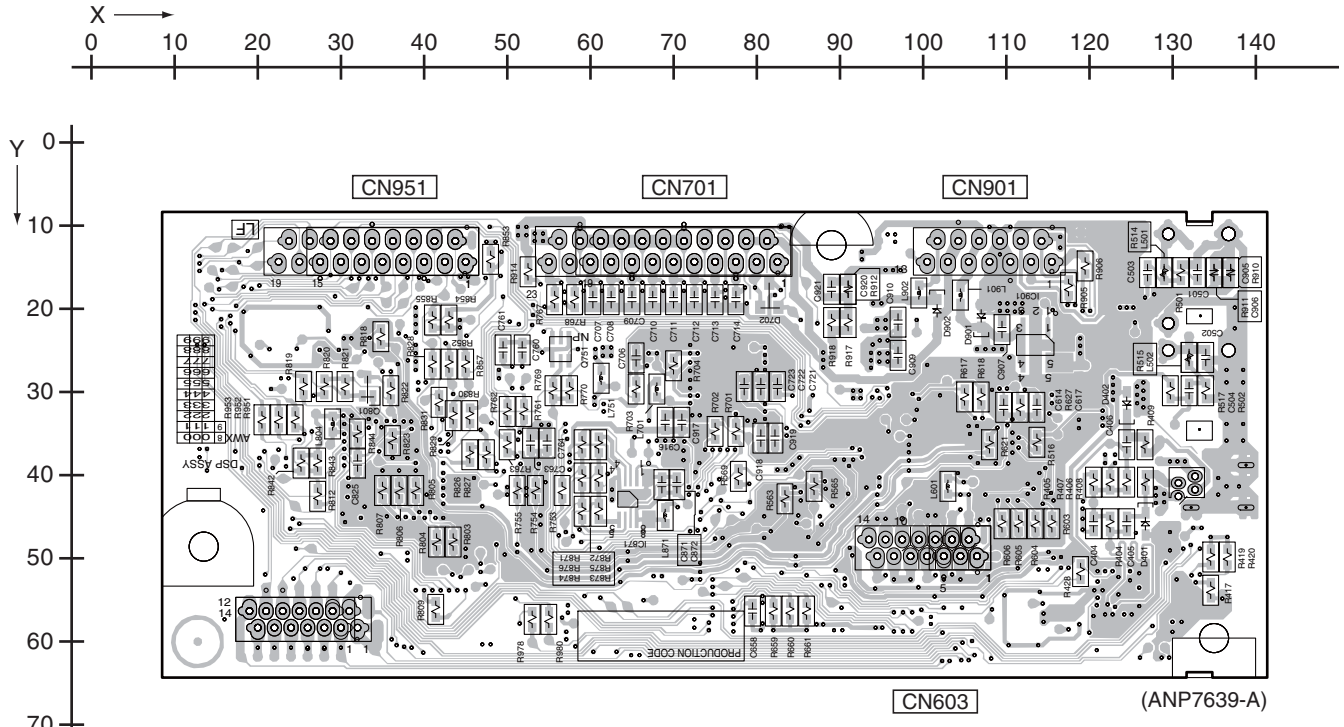
B DSP ASSY

SIDE A



SIDE B

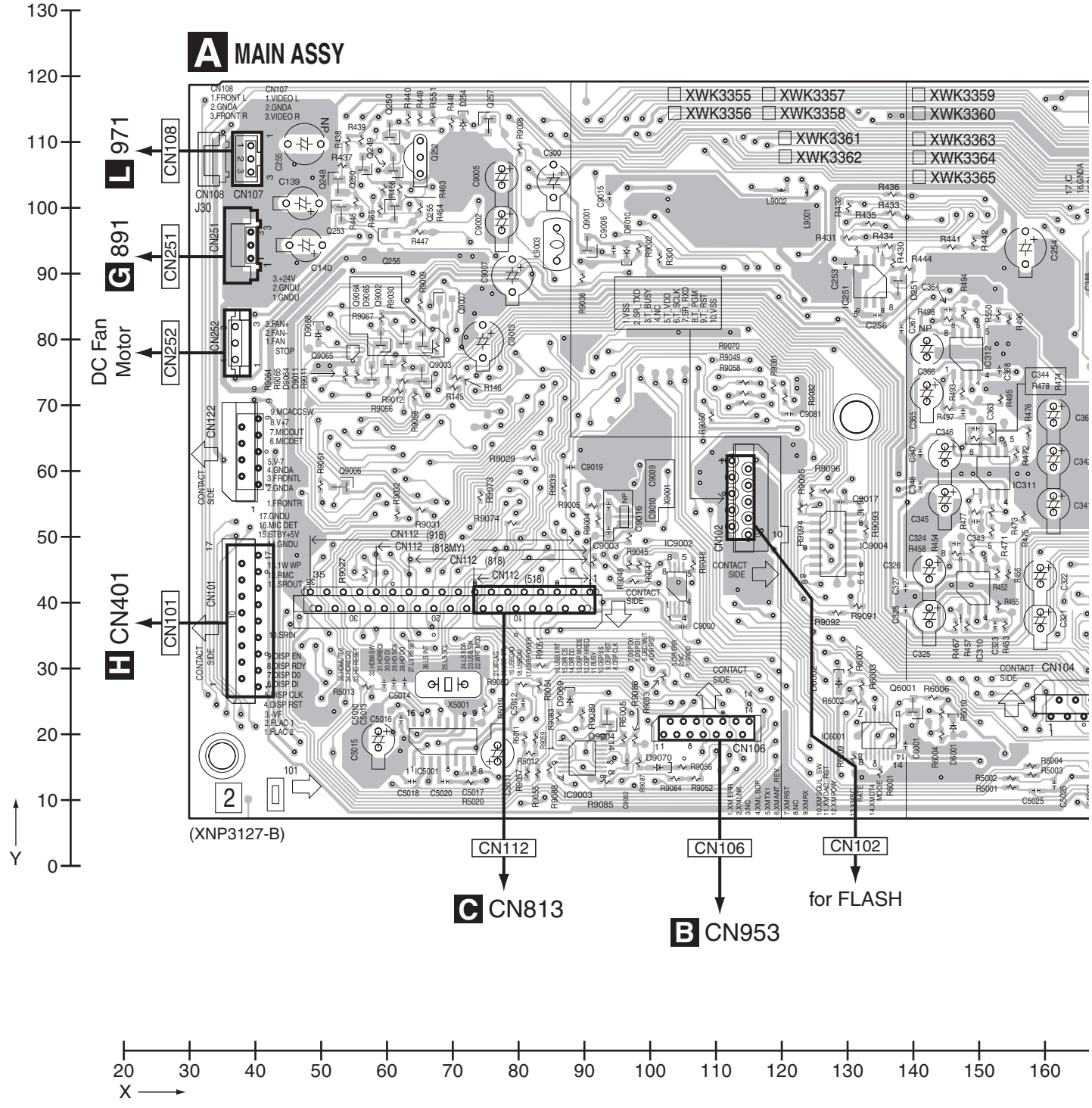
SIDE B



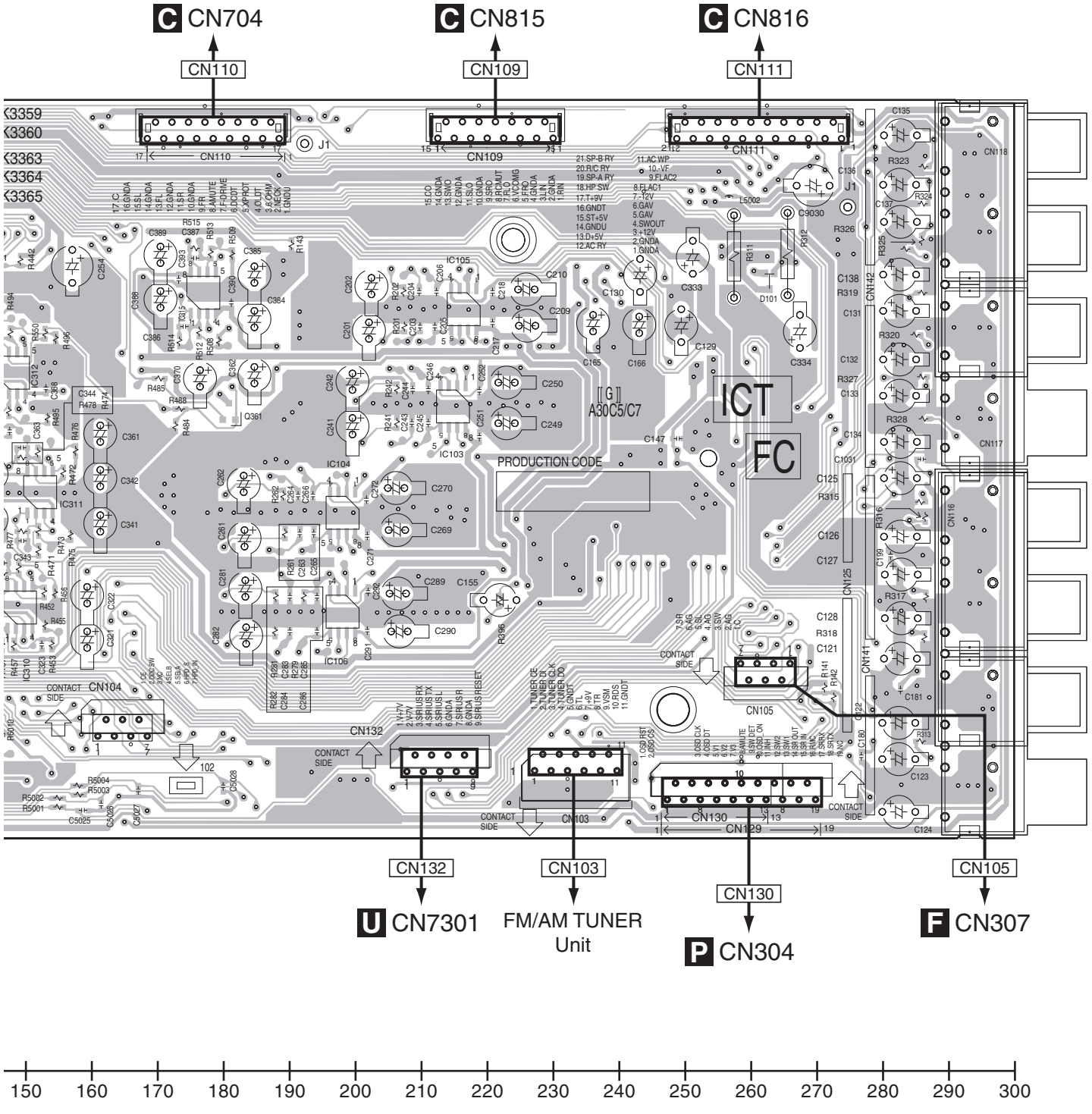
B DSP ASSY

11.2 MAIN ASSY

SIDE A



SIDE A

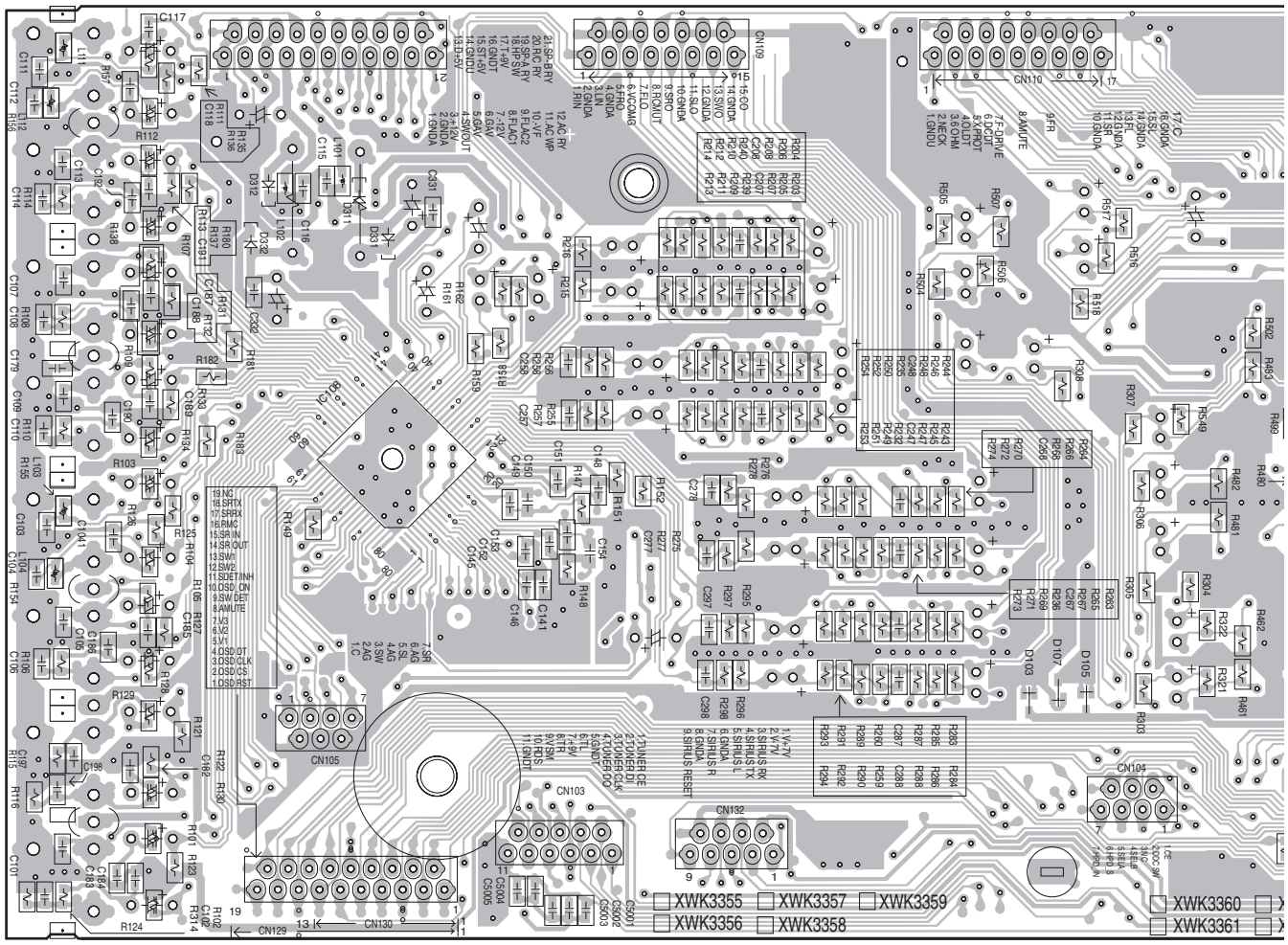

C CN704
C CN815
C CN816
CN110
CN109
CN111
CN132
CN103
CN130
CN105
U CN7301
FM/AM TUNER Unit
P CN304
F CN307
ICT
FC
PRODUCTION CODE
A30C5/C7
CONTACT SIDE
150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

SIDE B

A

A MAIN ASSY

CN111 CN109 CN110

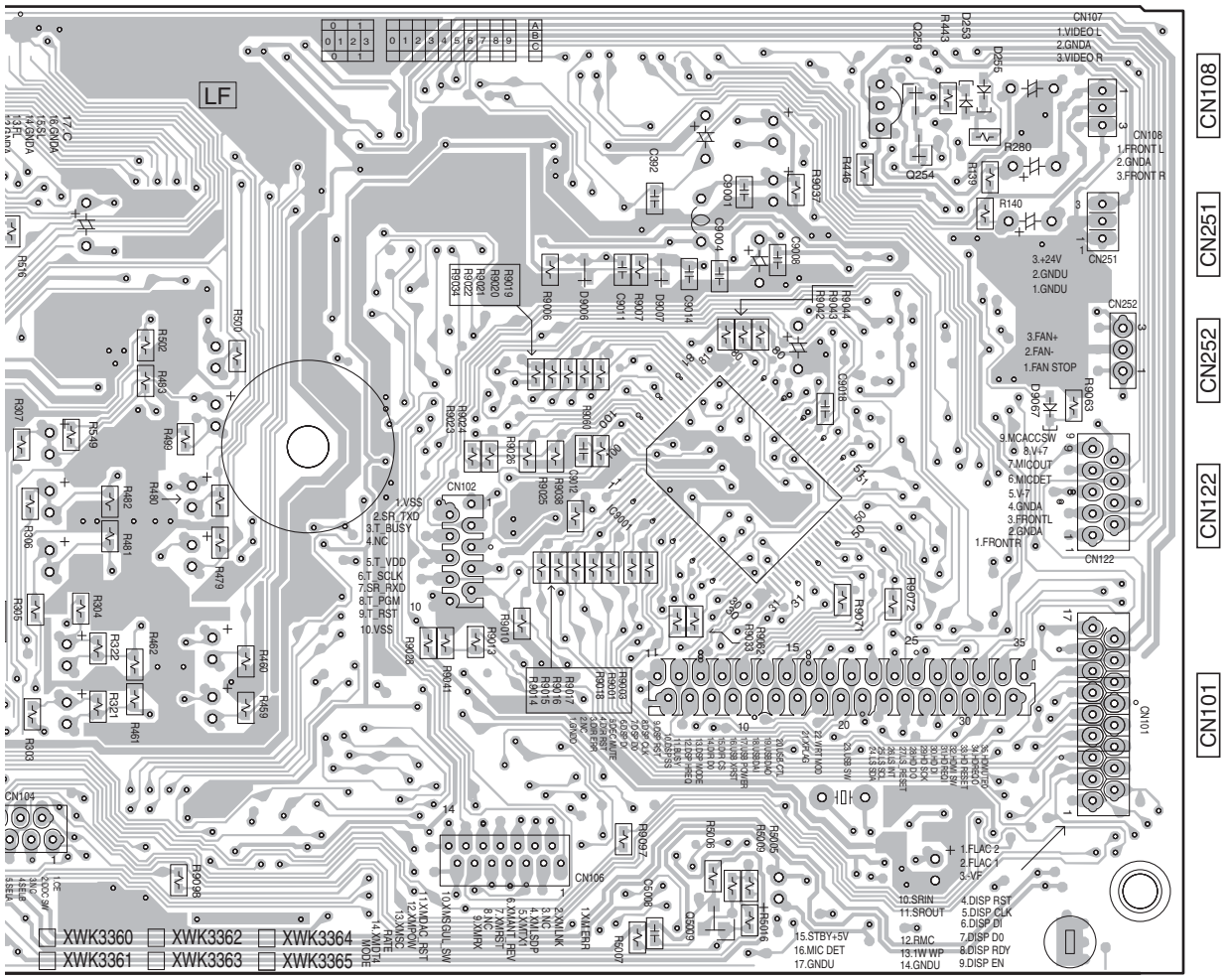


300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150

F

A

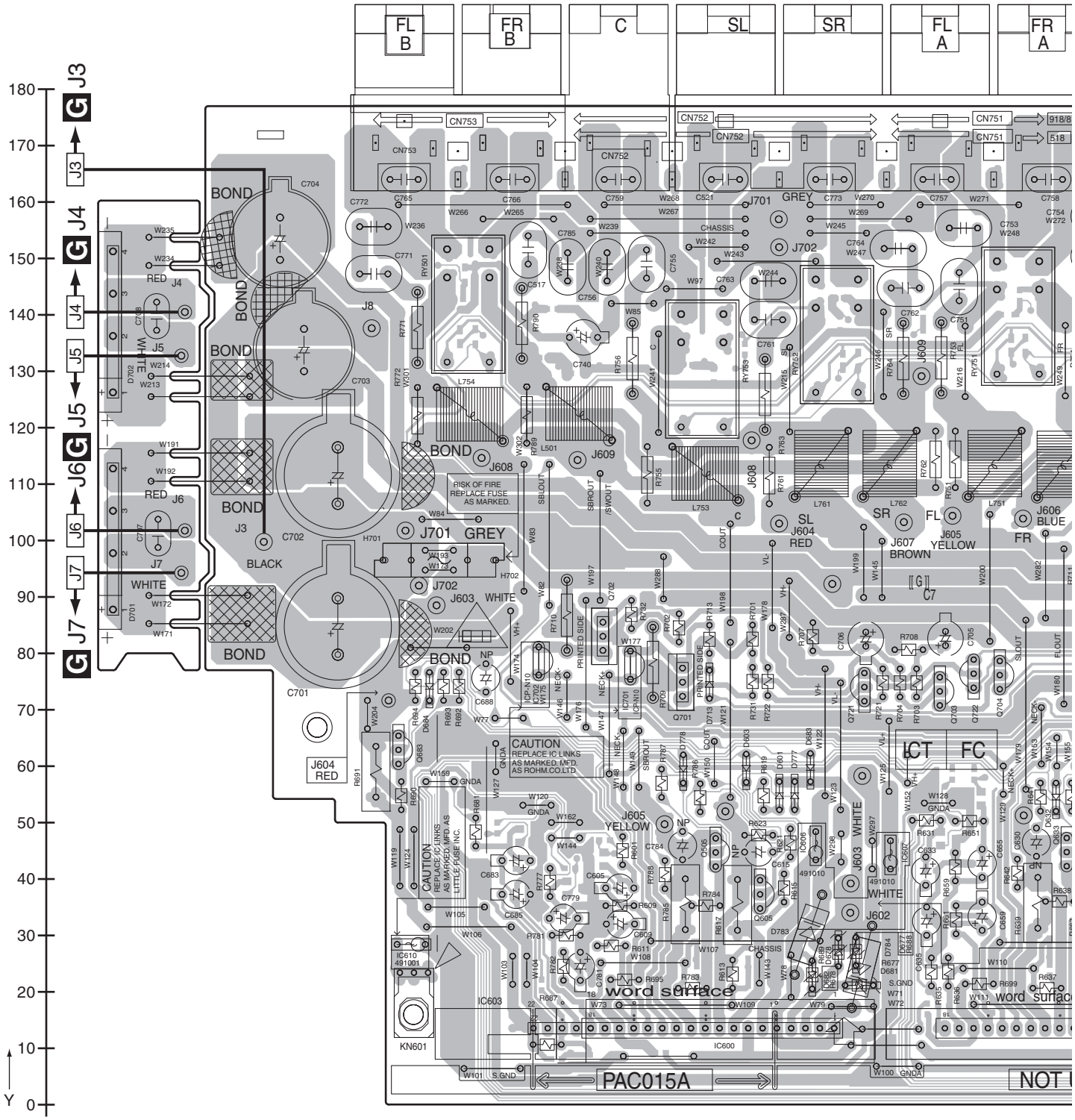
SIDE B

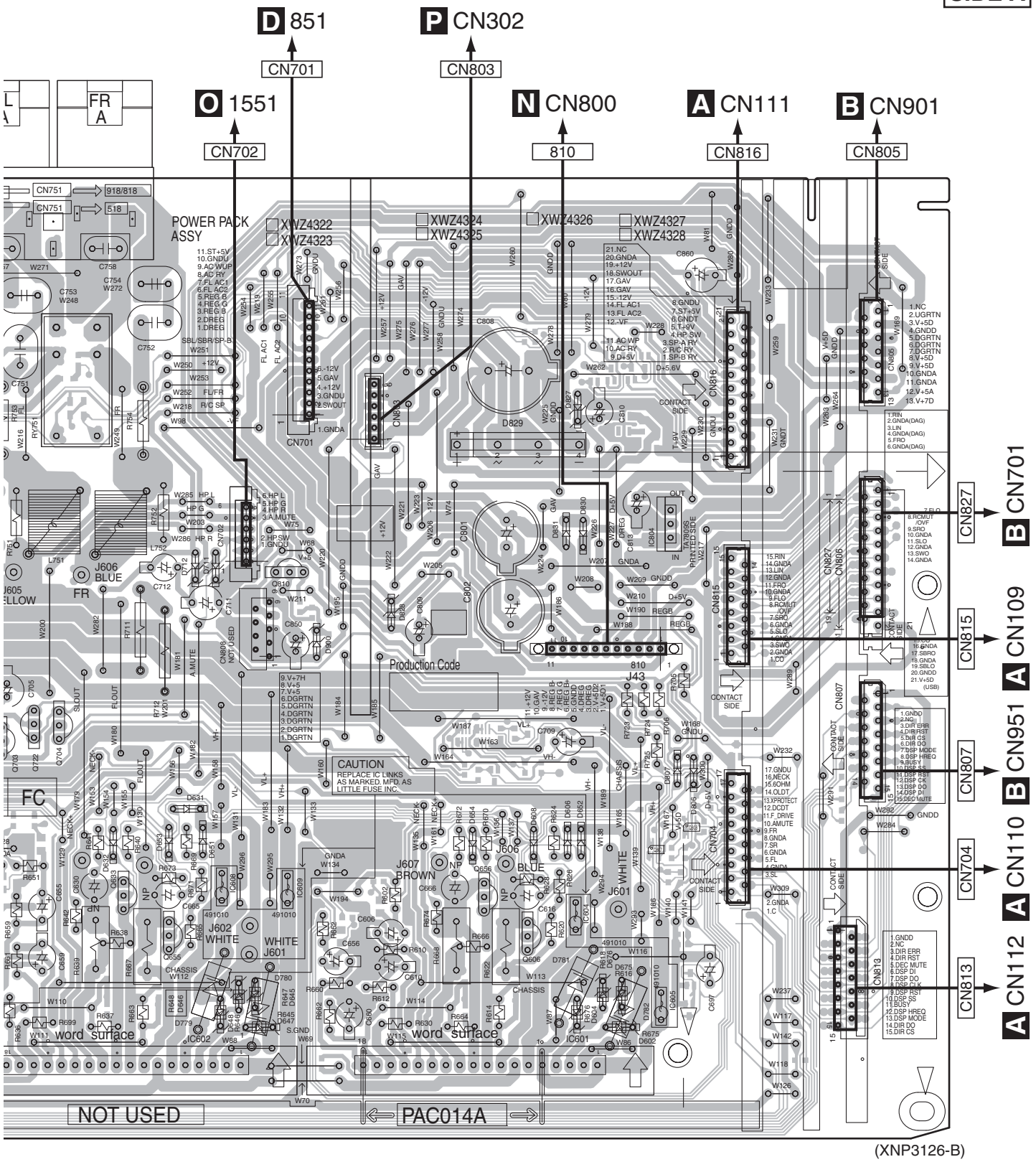

LF
CN108
CN251
CN252
CN122
CN101
CN104
CN102
CN106
CN112
XWK3360
XWK3361
XWK3362
XWK3363
XWK3364
XWK3365
(XNP3127-B)

11.3 POWER PACK ASSY

SIDE A

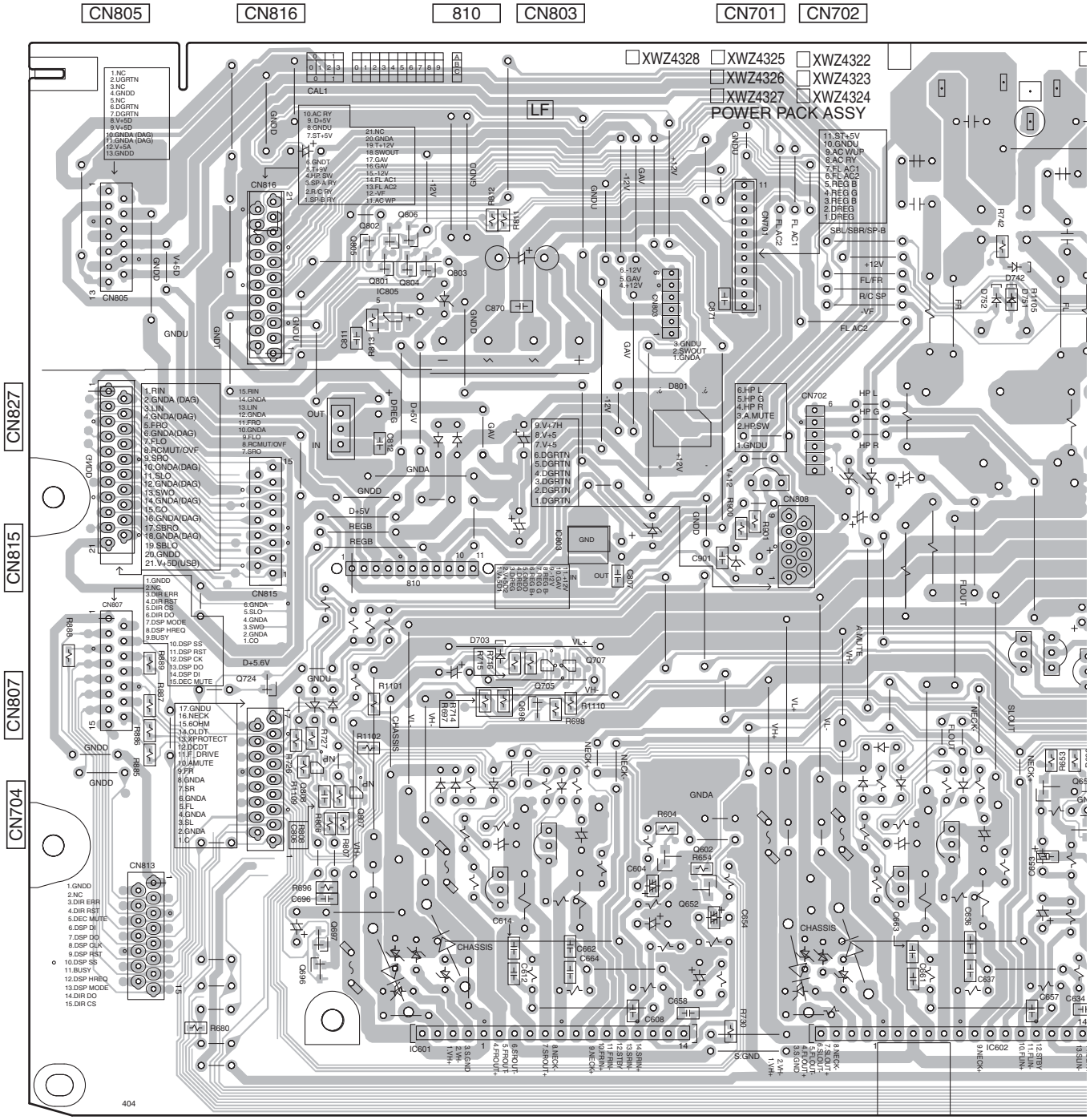
C POWER PACK ASSY



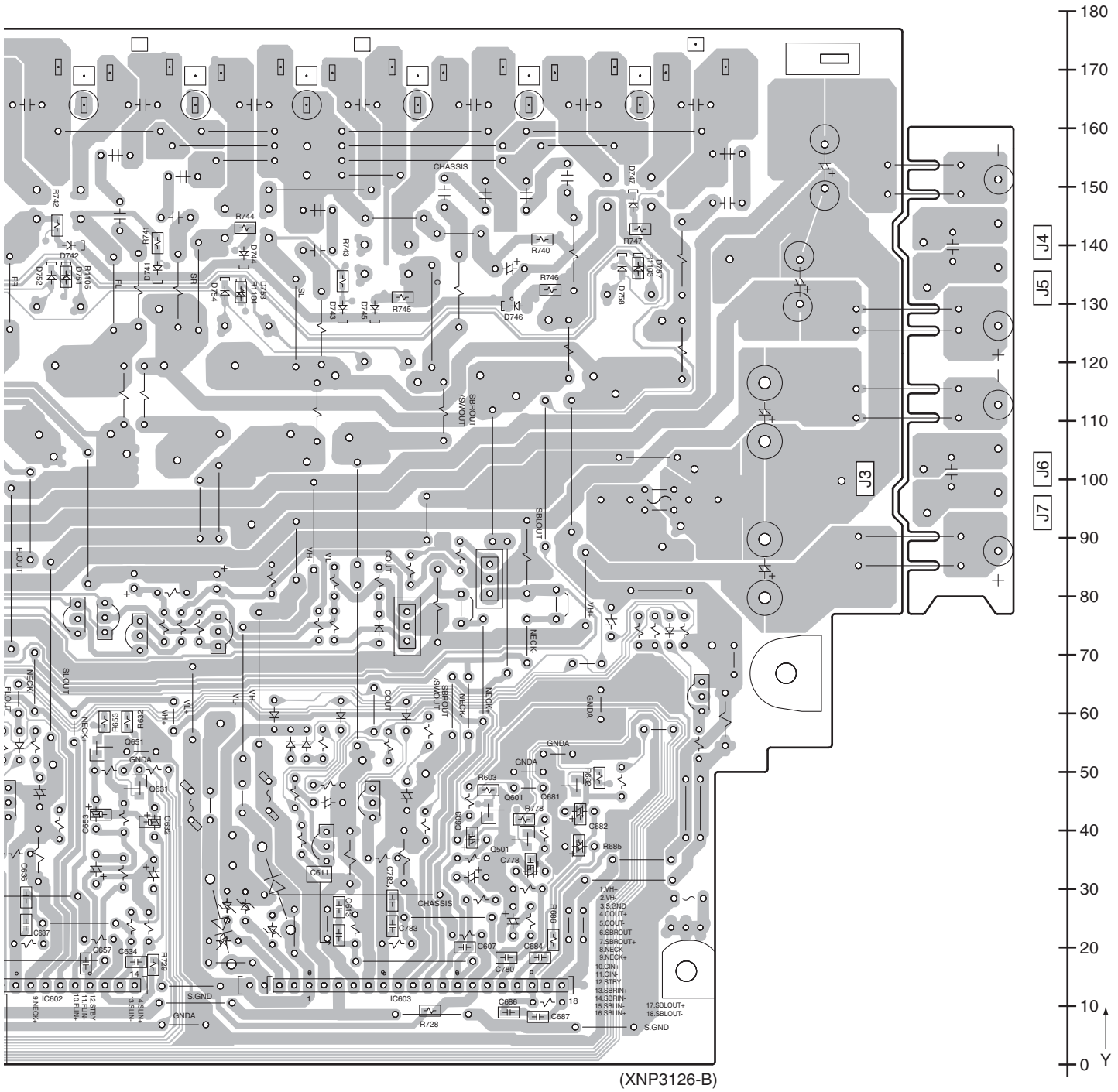

D 851
CN701
P CN302
CN803
O 1551
CN702
N CN800
810
A CN111
CN816
B CN901
CN805
POWER PACK ASSY
XWZ4322
XWZ4323
XWZ4324
XWZ4325
XWZ4326
XWZ4327
XWZ4328
CN827
B CN701
CN815
A CN109
CN807
B CN951
CN704
A CN110
CN813
A CN112
Production Code
CAUTION
REPLACE IC LINKS AS MARKED. MFD. AS LITTLE FUSE INC.
J606 BLUE
J607 BROWN
J602 WHITE
J601 WHITE
word surface
NOT USED
PAC014A
FC
FR
(XNP3126-B)

SIDE B

C POWER PACK ASSY



SIDE B

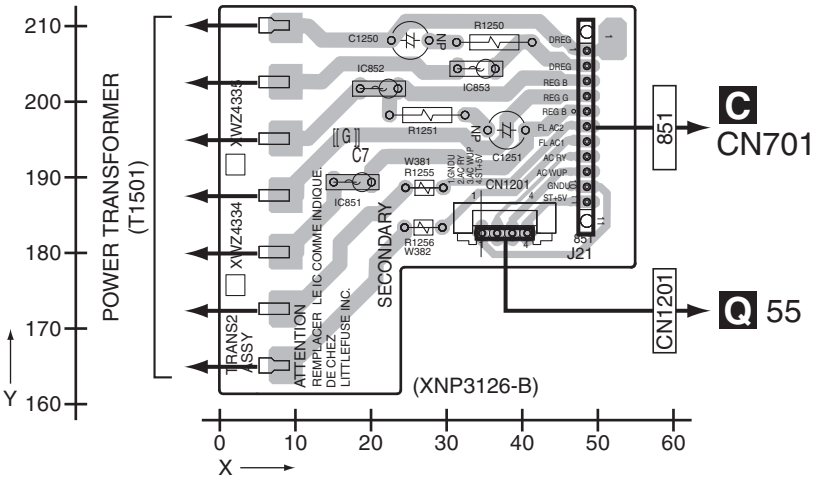


(XNP3126-B)

11.4 TRANS2 and TRANS3 ASSYS

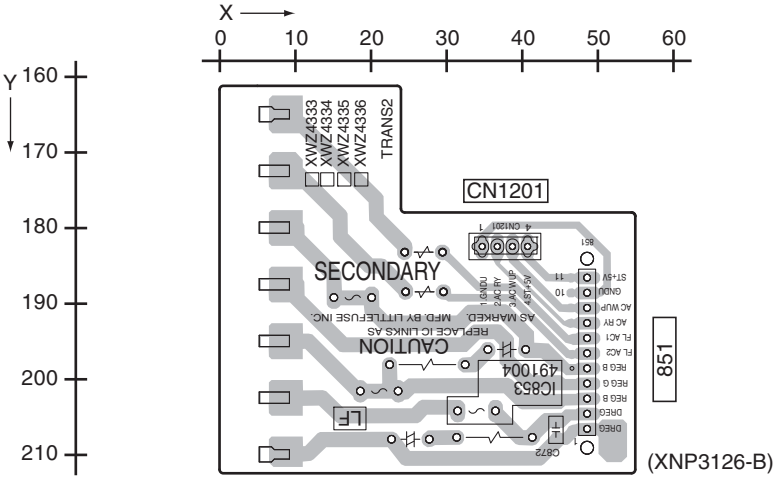
SIDE A

D TRANS2 ASSY



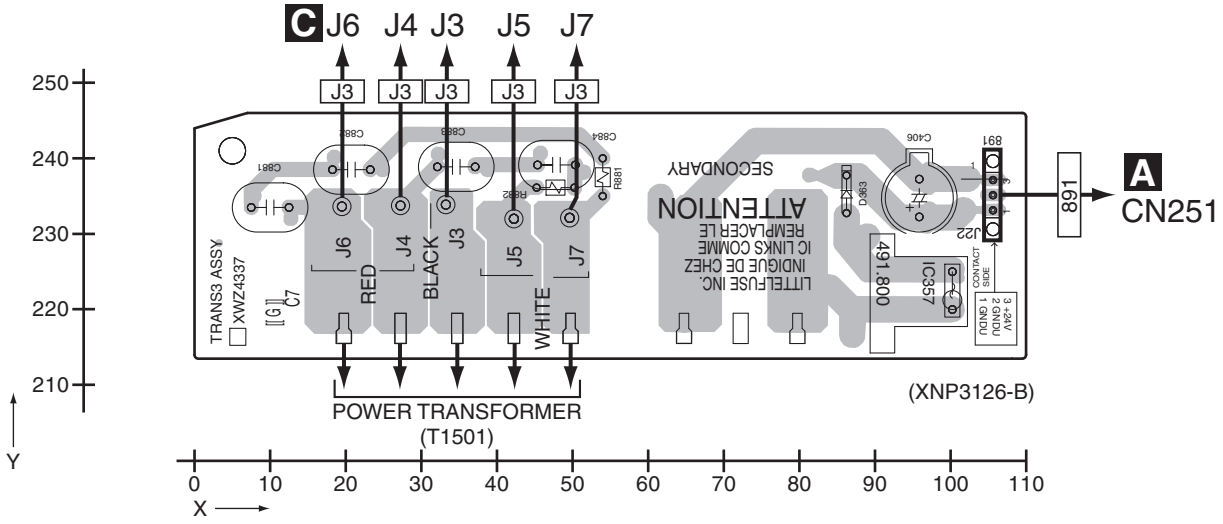
SIDE B

D TRANS2 ASSY



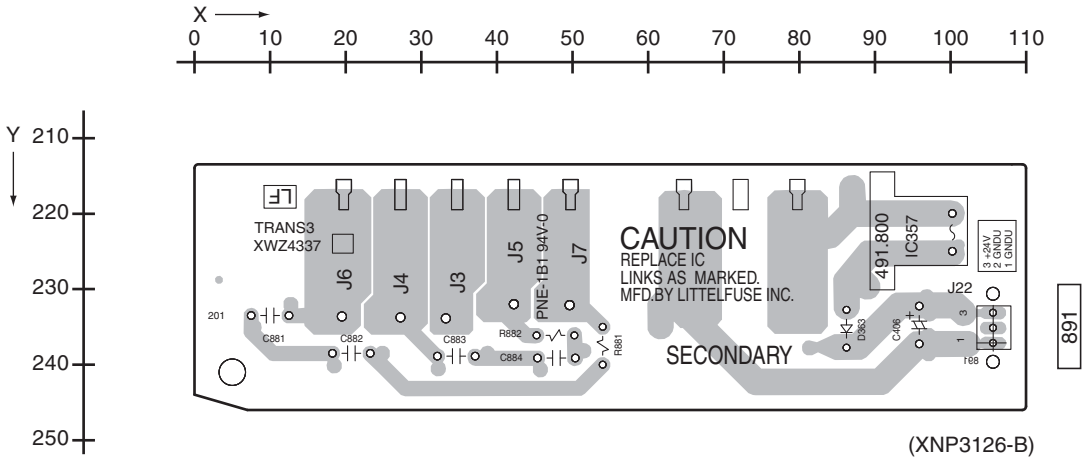
SIDE A

G TRANS3 ASSY



SIDE B

G TRANS3 ASSY

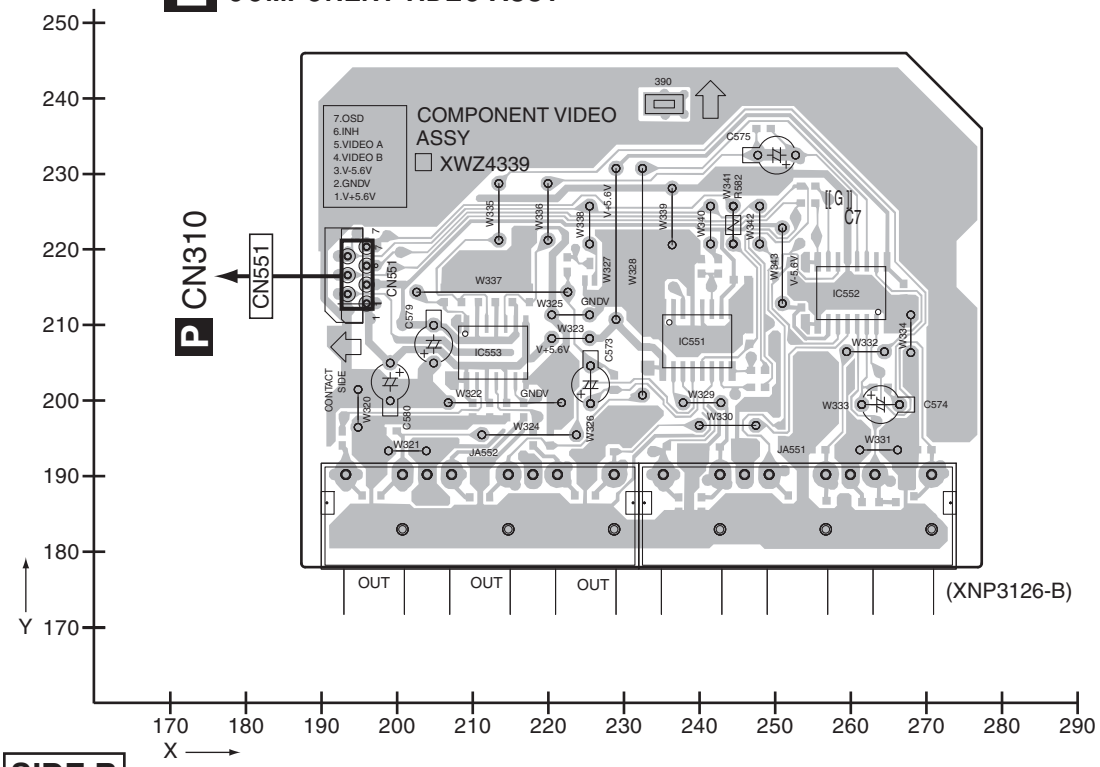


11.5 COMPONENT VIDEO ASSY

SIDE A

SIDE A

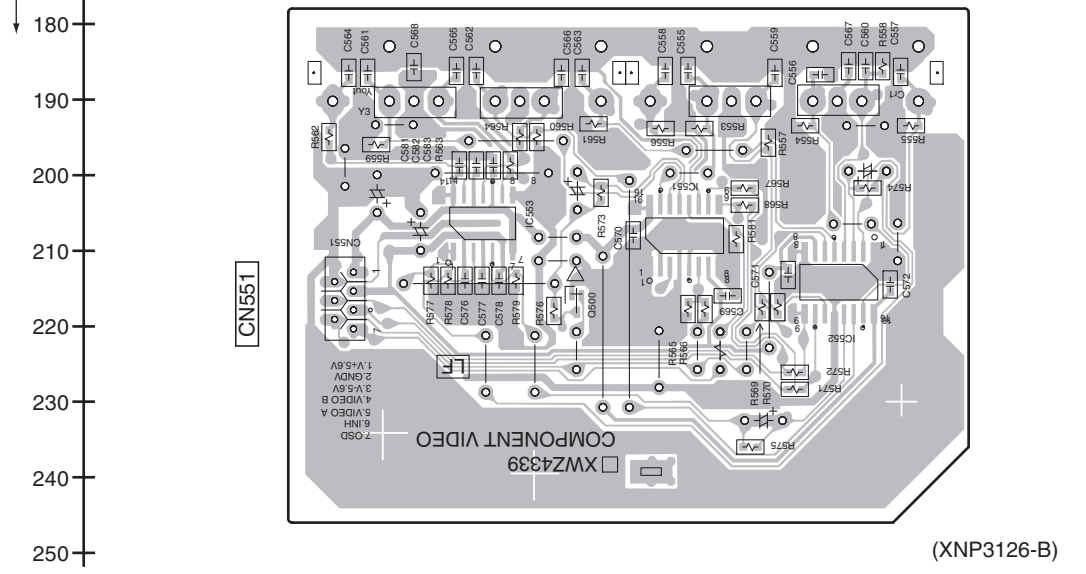
E COMPONENT VIDEO ASSY



SIDE B

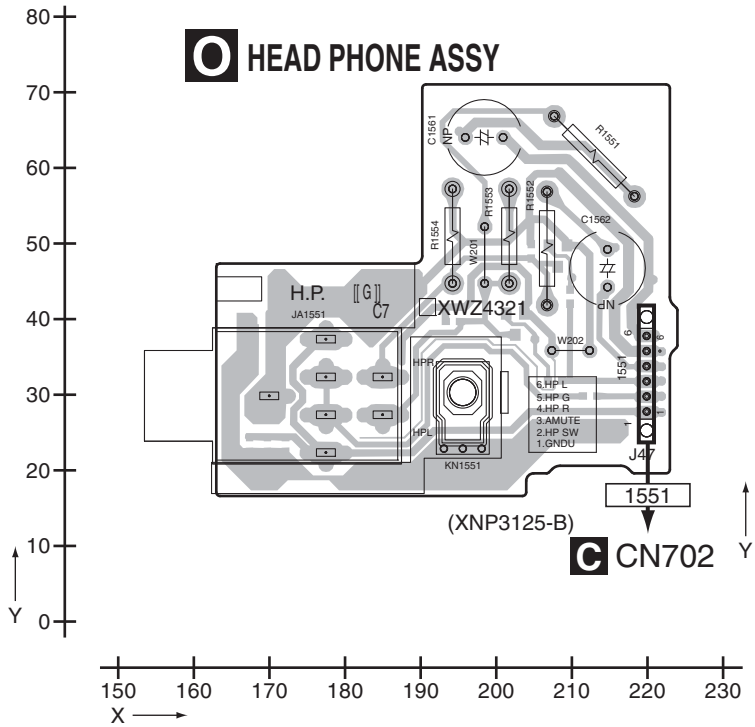
SIDE B

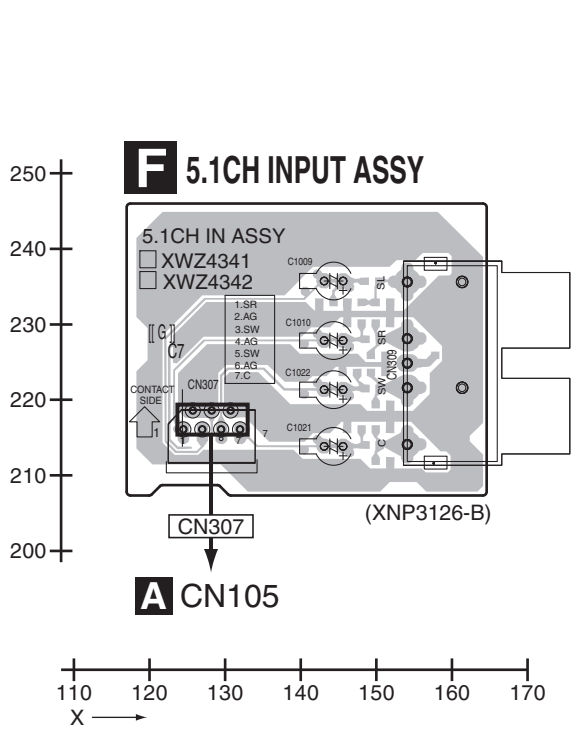
E COMPONENT VIDEO ASSY



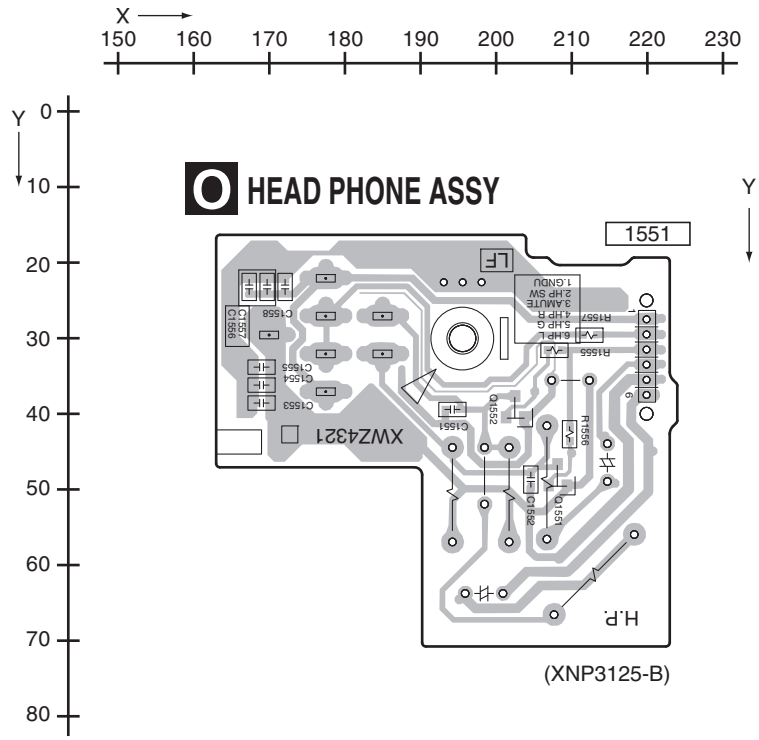
11.6 5.1CH INPUT and HEAD PHONE ASSYS

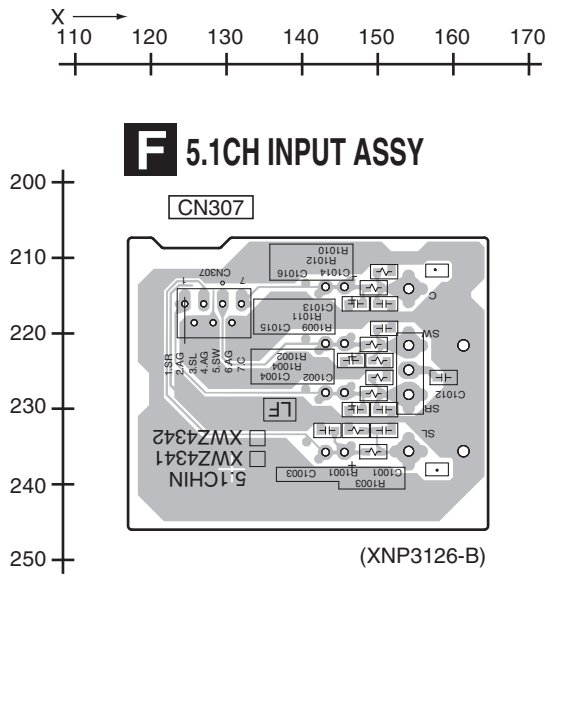
SIDE A





SIDE B



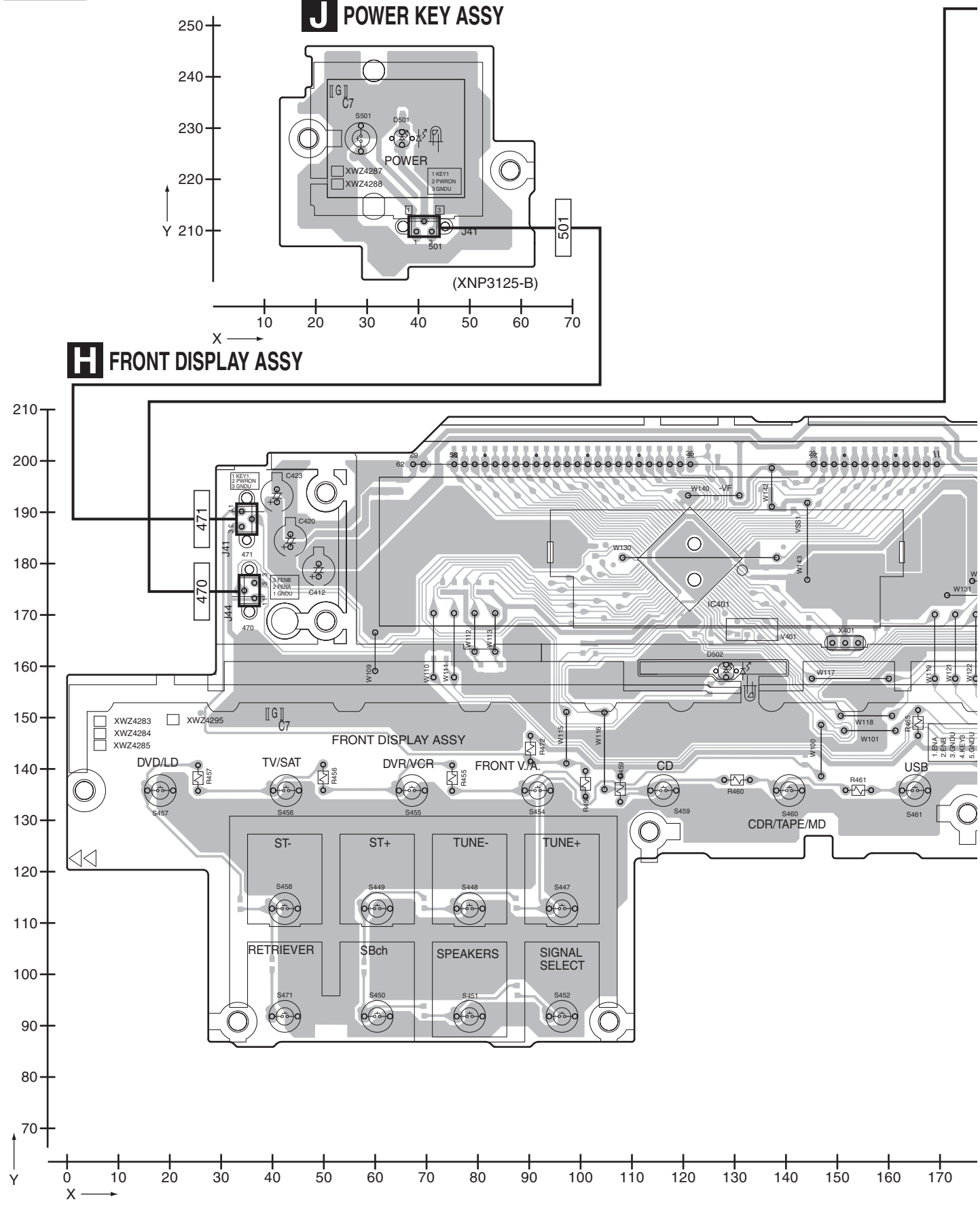


F O

F O

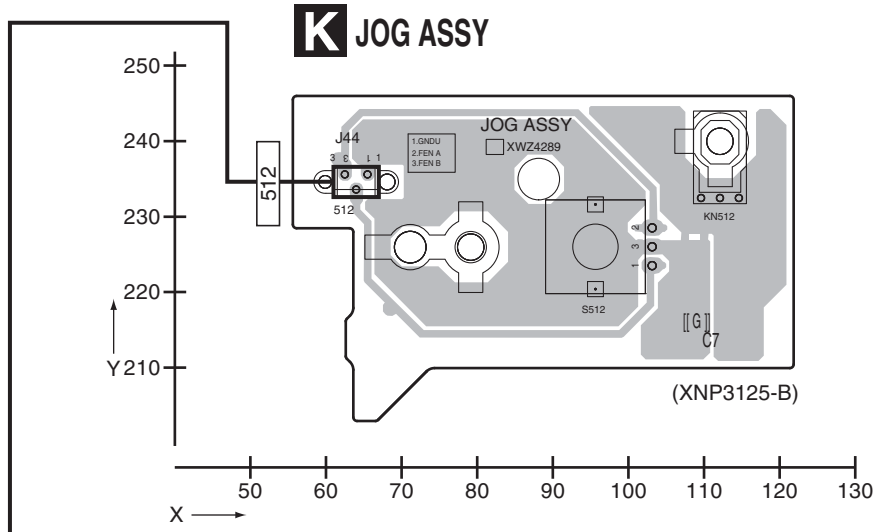
11.7 FRONT DISPLAY, ROTARY ENCODER, POWER KEY and JOG ASSYS

SIDE A



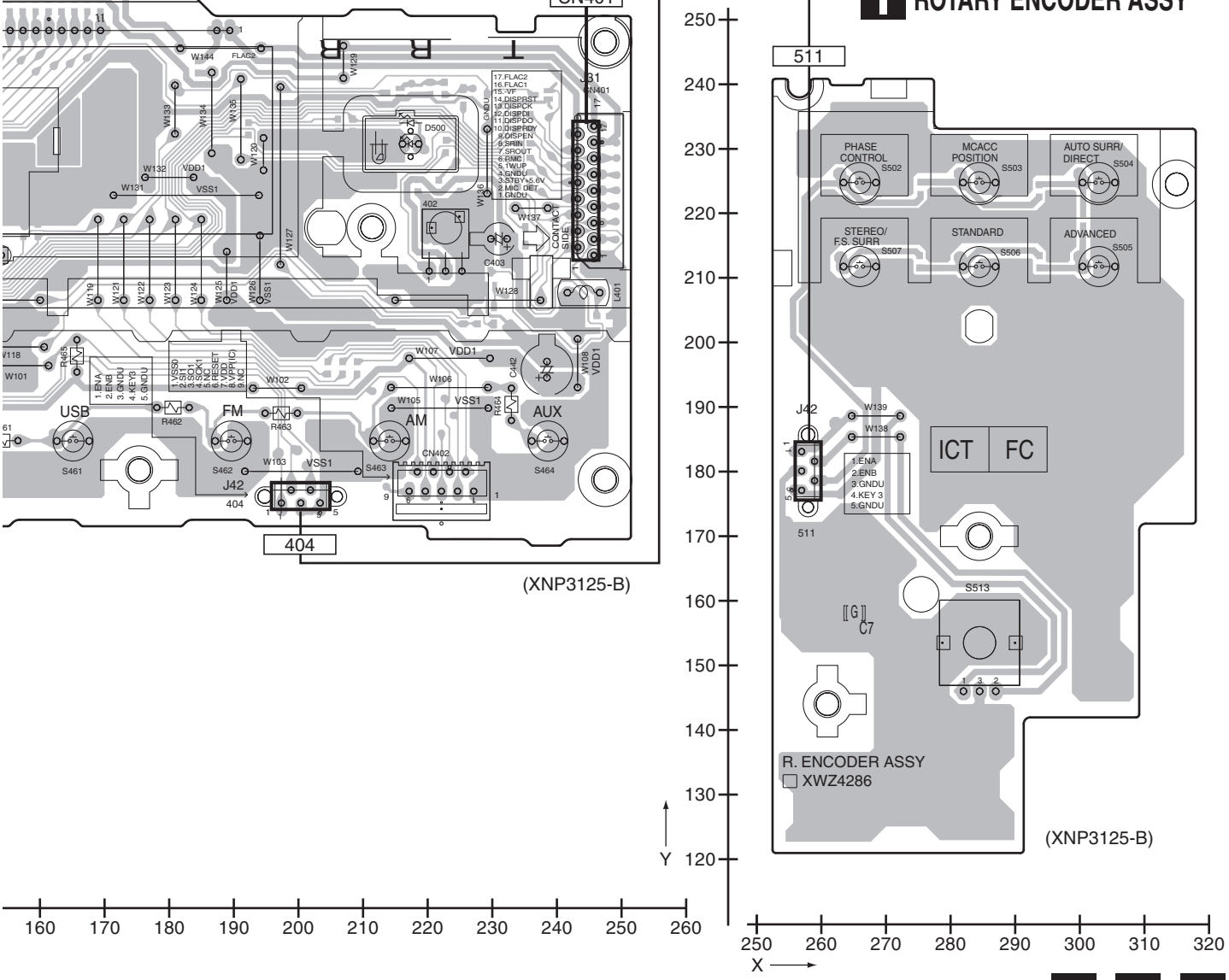
H J

K JOG ASSY



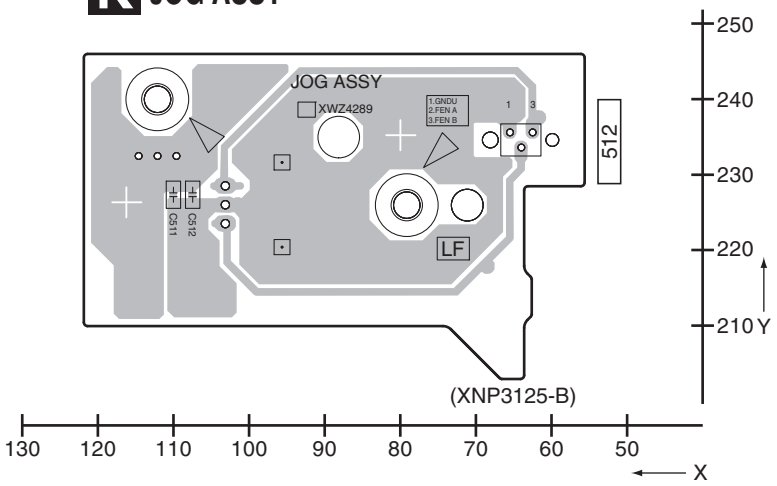
A CN101

I ROTARY ENCODER ASSY



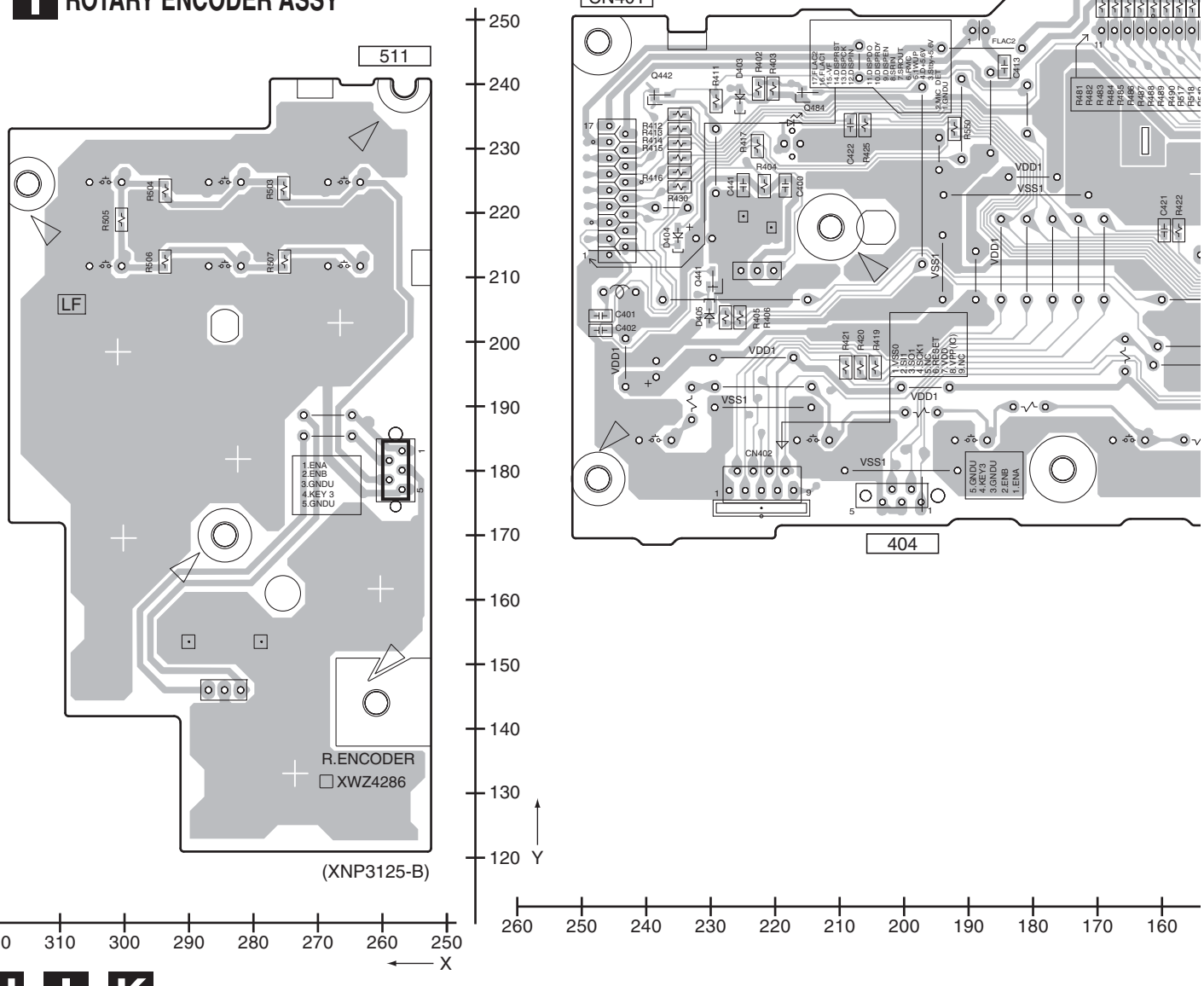
SIDE B

K JOG ASSY



H FRONT DISPLAY ASSY

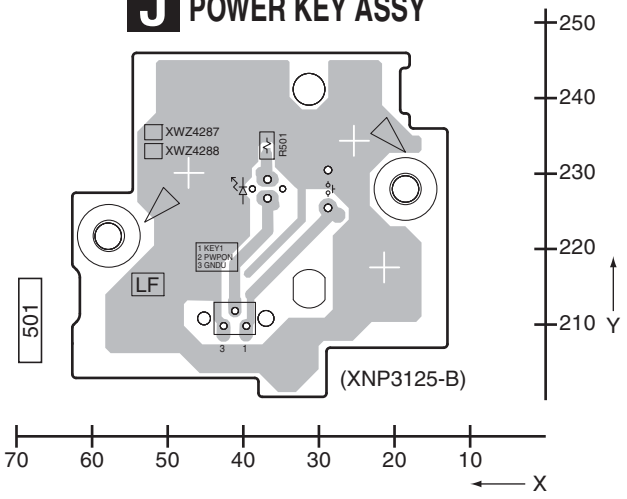
I ROTARY ENCODER ASSY

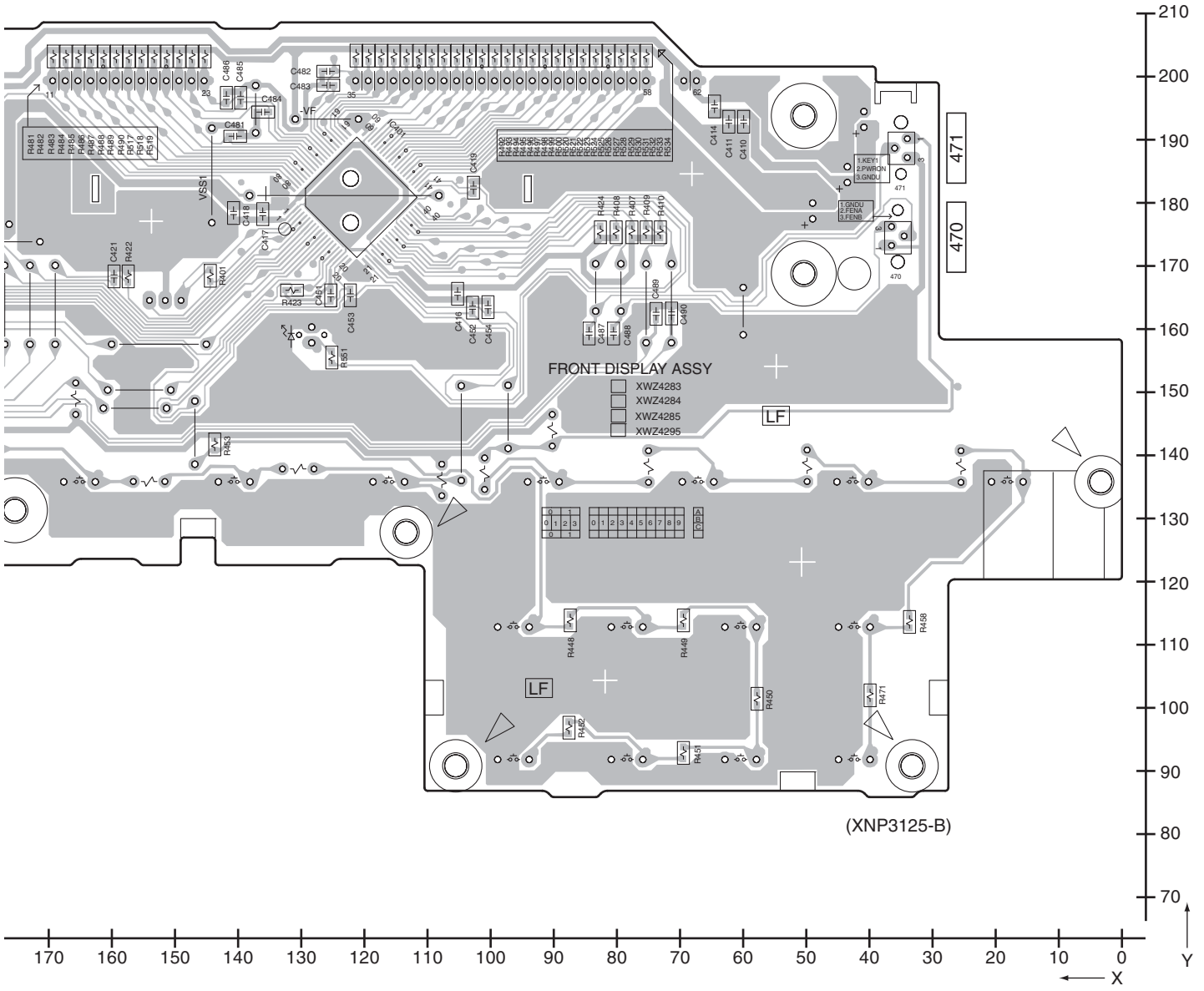


H I K

SIDE B

J POWER KEY ASSY

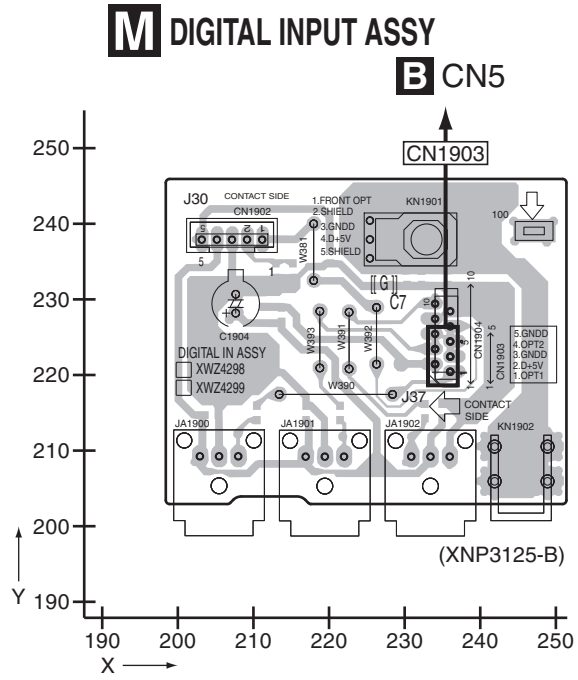




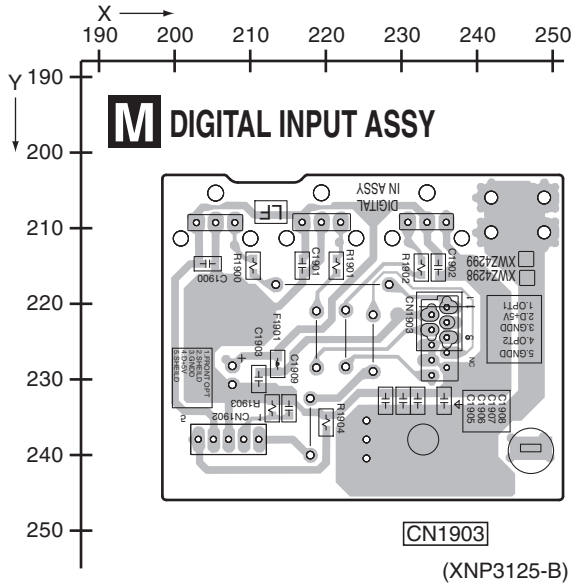
H J

11.8 DIGITAL INPUT ASSY

SIDE A

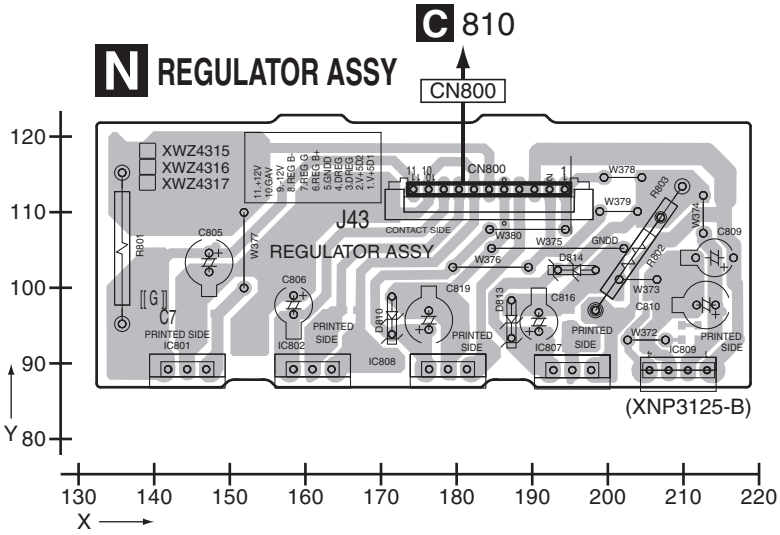


SIDE B

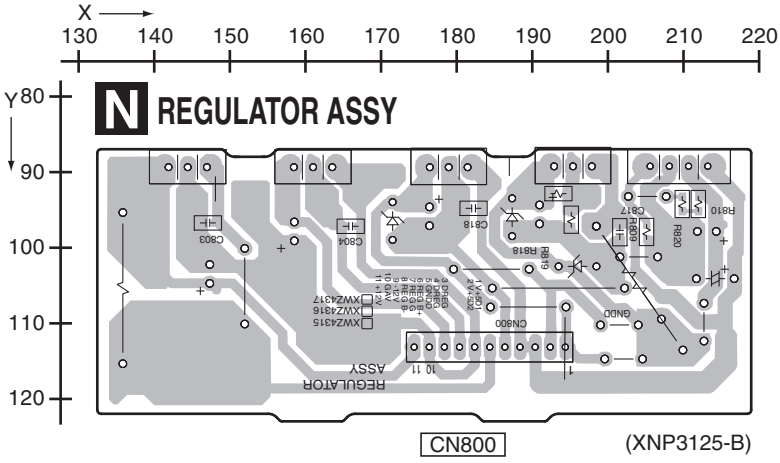


11.9 REGULATOR ASSY

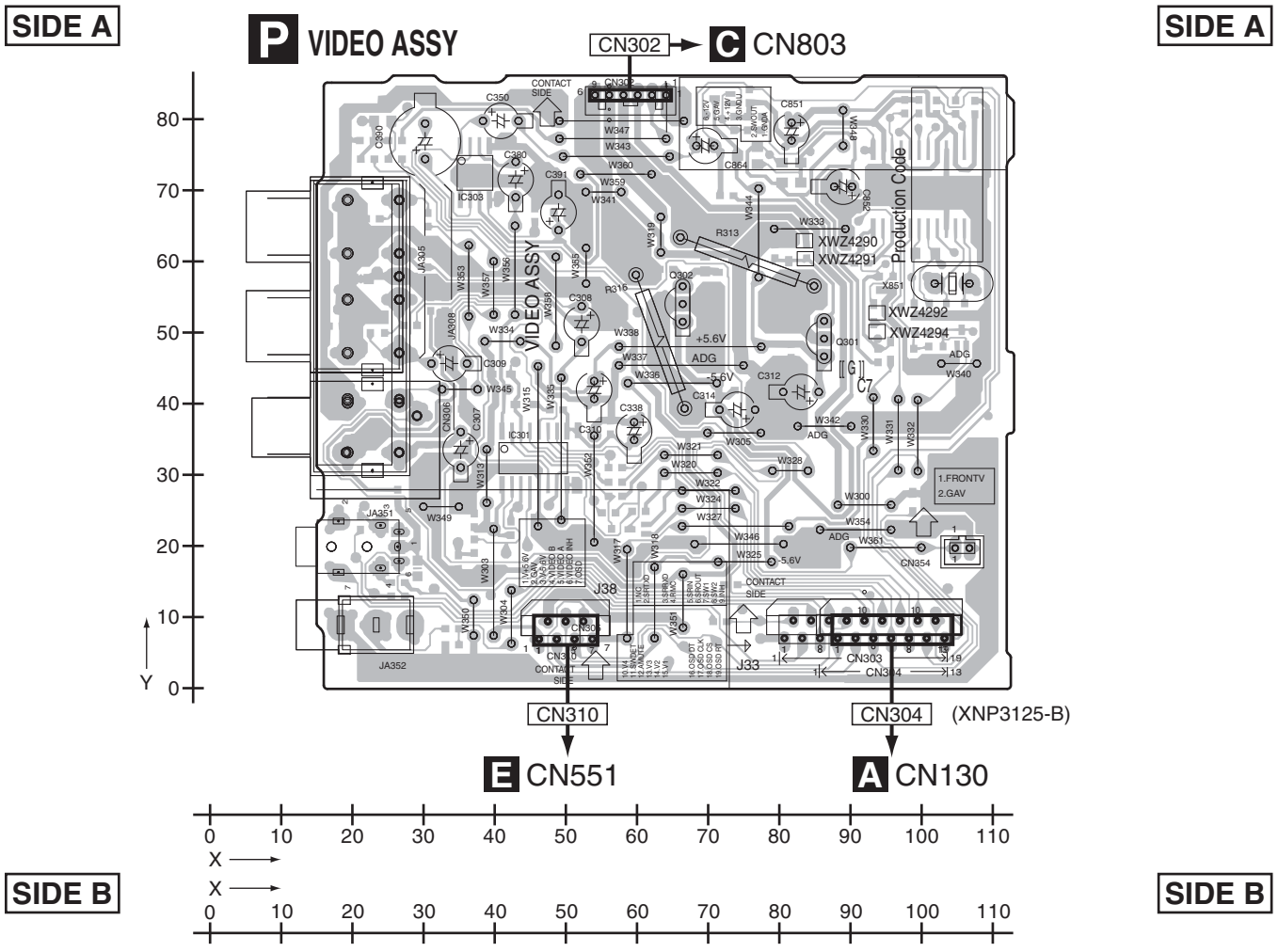
SIDE A

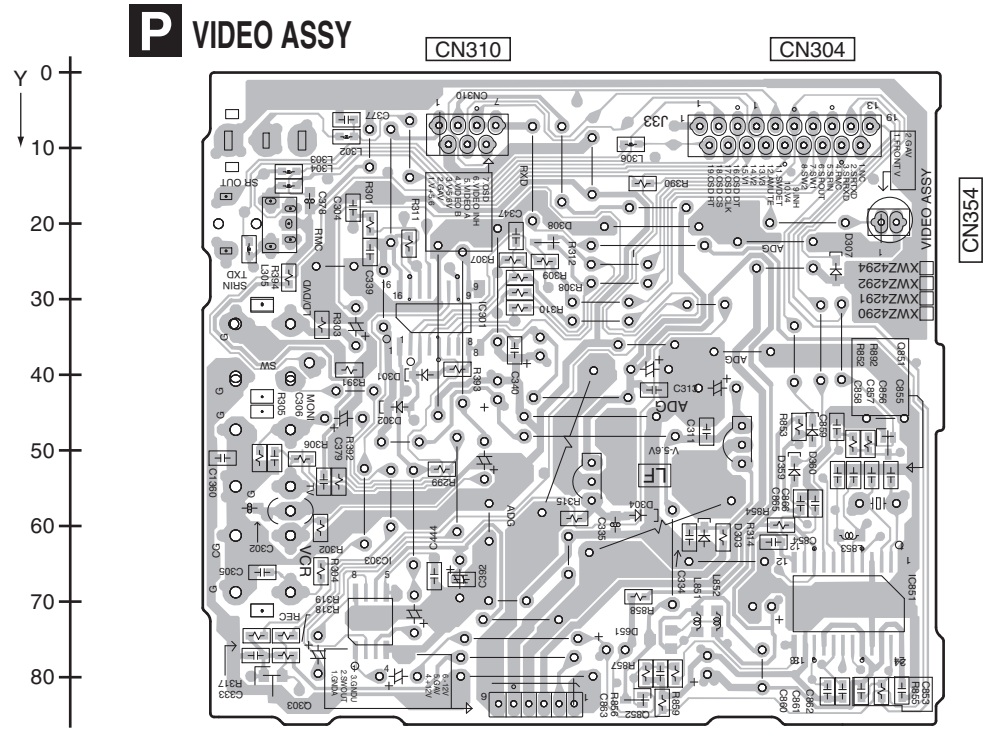


SIDE B



11.10 VIDEO ASSY



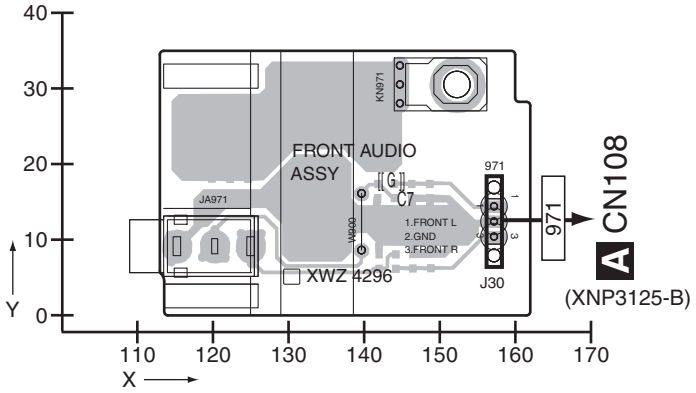


11.11 FRONT MINI JACK ASSY

SIDE A

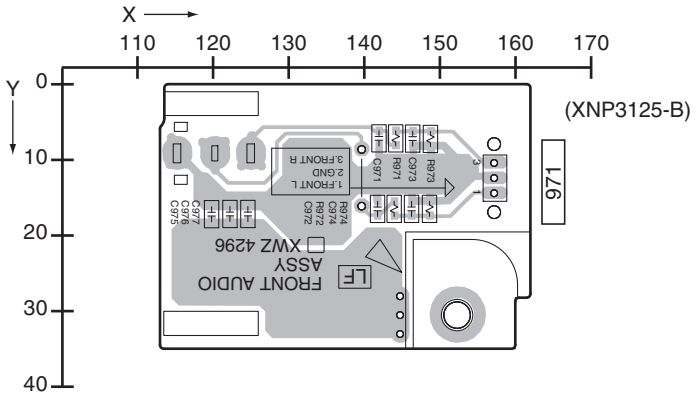
SIDE A

L FRONT MINI JACK ASSY



SIDE B

SIDE B

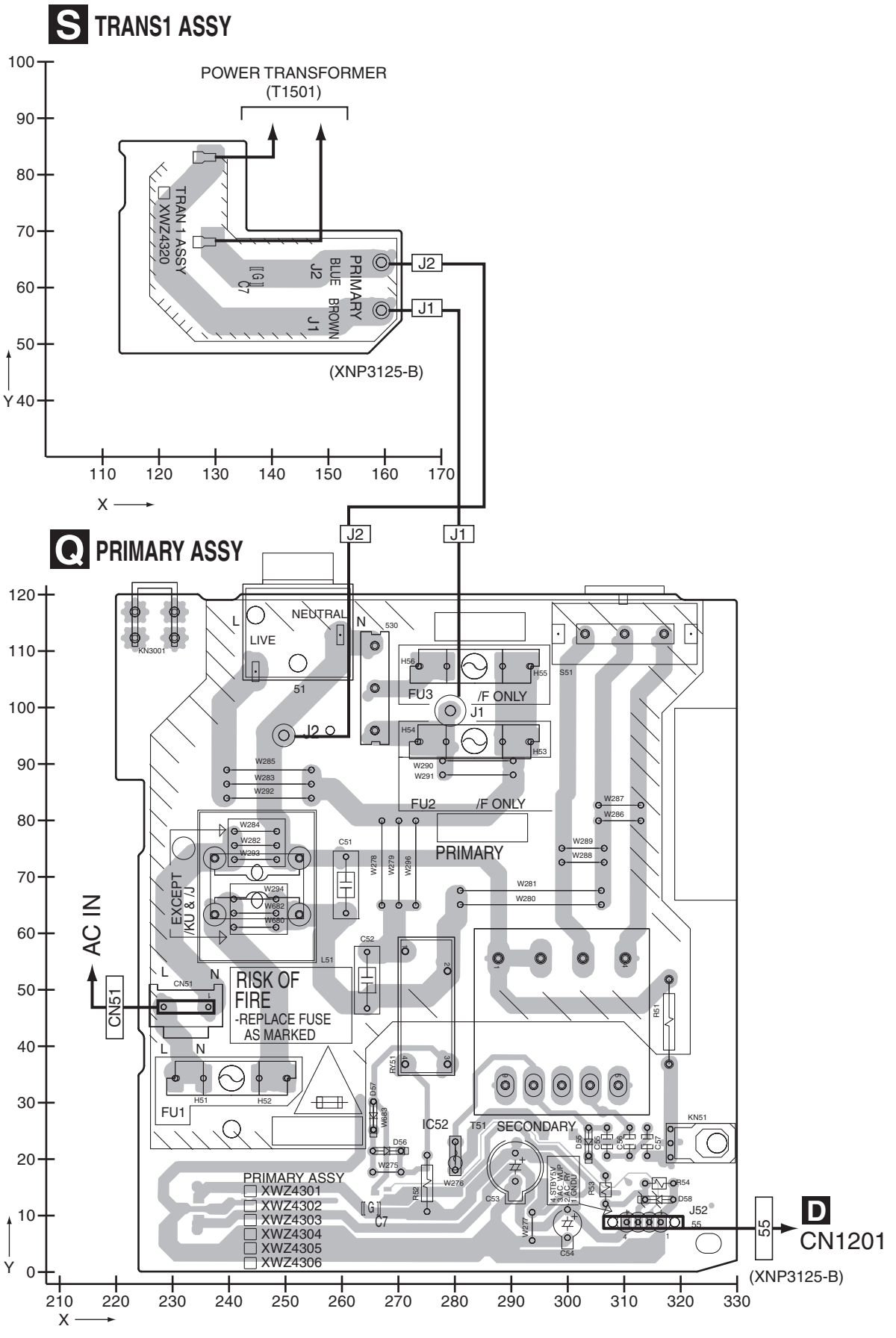


L FRONT MINI JACK ASSY

11.12 TRANS1 and PRIMARY ASSYS

SIDE A

SIDE A

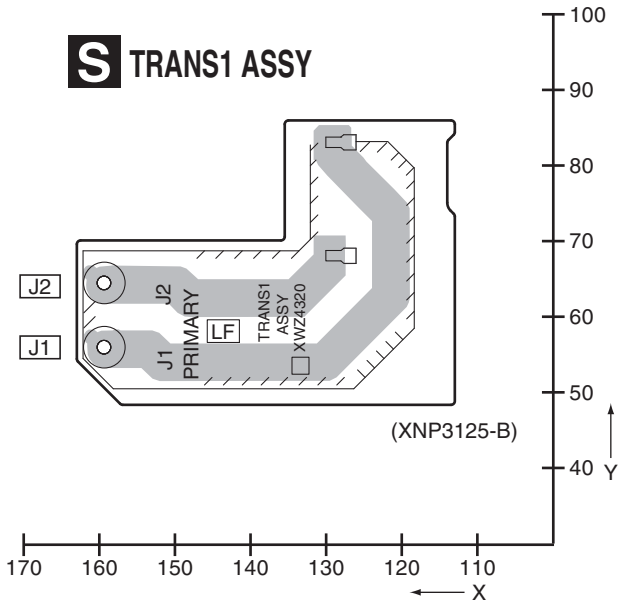


Q S

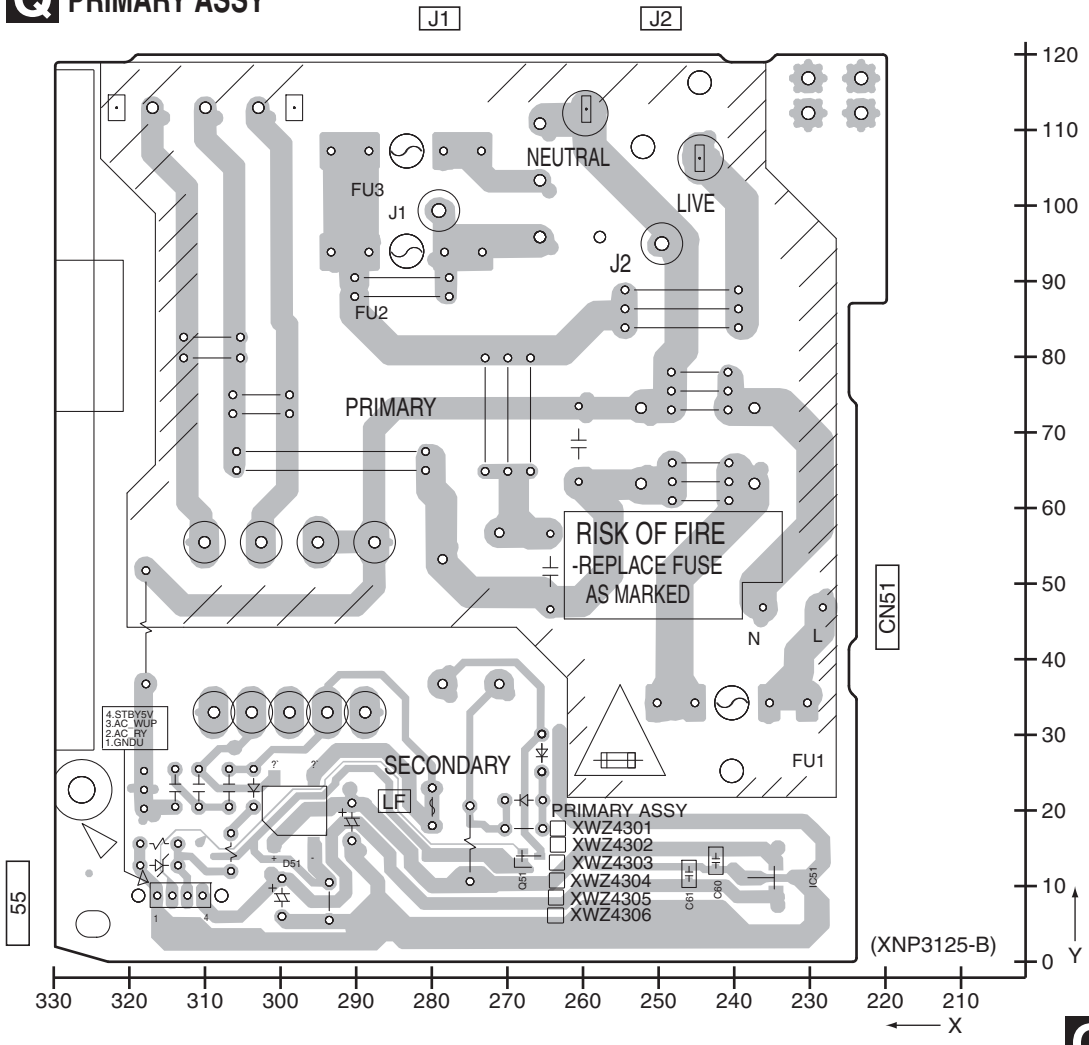
SIDE B

SIDE B

S TRANS1 ASSY



Q PRIMARY ASSY



Q S

5 6 7 8

12. ELECTRICAL PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*

● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^1 → 561 ..... RD1/4PU 5 6 1 J

47k Ω → 47 x 10^3 → 473 ..... RD1/4PU 4 7 3 J

0.5 Ω → R50 ..... RN2H R 5 0 K

1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10^1 → 5621 ..... RN1/4PC 5 6 2 1 F

● *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	..MAIN ASSY	XWK3355
	1	..DSP ASSY	AWX8980
NSP	1	..AMP ASSY	XWK3345
	2	..POWER PACK ASSY	XWZ4322
	2	..TRANS2 ASSY	XWZ4334
	2	..TRANS3 ASSY	XWZ4337
	2	..COMPONENT VIDEO ASSY	XWZ4339
	2	..5.1CH INPUT ASSY	XWZ4341
	2	..BIND ASSY	XWZ4344
NSP	1	..COMPLEX ASSY	XWK3331
	2	..FRONT DISPLAY ASSY	XWZ4283
	2	..ROTARY ENCODER ASSY	XWZ4286
	2	..POWER KEY ASSY	XWZ4287
	2	..JOG ASSY	XWZ4289
	2	..VIDEO ASSY	XWZ4290
	2	..FRONT MINI JACK ASSY	XWZ4296
	2	..DIGITAL INPUT ASSY	XWZ4298
	2	..PRIMARY ASSY	XWZ4301
	2	..REGULATOR ASSY	XWZ4315
	2	..TRANS1 ASSY	XWZ4320
	2	..HEAD PHONE ASSY	XWZ4321
	1	..FM/AM TUNER UNIT	AXX7210

PCB PARTS LIST

AMP ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠ J	2	BOARD IN WIRE	XDX3071
J	41	JUMPER WIRE	D15A03-100-2651
J	42	JUMPER WIRE	D15A05-125-2651
J	44	JUMPER WIRE	D15A03-100-2651

A MAIN ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	103	(A,215,73) DUAL OP-AMP	NJM4565MD
IC	104	(A,198,56) DUAL OP-AMP	NJM4565MD
IC	105	(A,217,87) DUAL OP-AMP	NJM4565MD
IC	108	(B,253,65) 6CH E-VOL IC	BD3474KS2
IC	251	(A,134,89) DUAL OP-AMP	NJM4565MD
IC	9001	(B,82,64) SYSTEM CONTROL MICON	PEG468C
IC	9002	(A,104,42) EEPROM	BR24L16FV-W
Q	248	(A,53,103) TRANSISTOR	2SC4081
Q	249	(A,61,107) TRANSISTOR	RT1N241M
Q	250	(A,60,112) TRANSISTOR	2SC4081
Q	252	(A,65,105) TRANSISTOR	2SD1858X
Q	253	(A,53,99) TRANSISTOR	RT1N241M
Q	254	(B,61,103) DIGITAL TR(SC-70)	RT1P241M
Q	255	(A,61,99) TRANSISTOR	RT1N241M
Q	256	(A,61,95) CHIP TRANSISTOR	2SD2704K
Q	257	(A,76,112) TRANSISTOR	2SA1576A
Q	361	(A,181,72) TRANSISTOR	2SC5938A
Q	9001	(A,91,94) DIGITAL TR(SC-70)	RT1N431M
Q	9002	(A,66,80) DIGITAL TR(SC-70)	RT1P241M
Q	9003	(A,65,75) DIGITAL TR(SC-70)	RT1P241M
Q	9007	(A,69,85) TRANSISTOR	DTC143TK
Q	9064	(A,59,80) DIGITAL TR(SC-70)	RT1P241M
Q	9065	(A,55,78) TRANSISTOR	UMD2N
D	103	(B,177,35) DIODE	DAN217U(A)
D	105	(B,170,35) DIODE	DAN217U(A)
D	107	(B,174,37) DIODE	DAN217U(A)
D	251	(A,138,88) DIODE	DAN217U(A)
D	253	(B,55,108) DIODE	UDZS27(B)(A)
D	254	(A,72,113) DIODE	UDZS5R1(B)(A)
D	311	(B,258,96) DIODE	1SS355(A)
D	312	(B,269,98) DIODE	1SS355(A)
D	331	(B,254,91) DIODE	UDZS6R8(B)(A)
D	332	(B,271,91) DIODE	UDZS6R8(B)(A)
D	9006	(B,99,89) DIODE	DAN217U(A)
D	9007	(B,91,89) DIODE	DAN217U(A)
D	9010	(A,97,93) DIODE	1SS355(A)
D	9011	(A,60,75) DIODE	DAN202U(A)
D	9064	(A,58,75) DIODE	DAP202U(A)
D	9065	(A,63,80) DIODE	DAP202U(A)
D	9068	(A,50,81) DIODE	1SS355(A)

Mark	No.	Description	Part No.
L	101	(B,260,98) CHIP SOLID INDUCTOR	QTL1013
L	102	(B,267,97) CHIP SOLID INDUCTOR	QTL1013
L	5002	(A,257,104) CHIP SOLID INDUCTOR	QTL1013
L	9001	(A,124,102) CHIP SOLID INDUCTOR	ATL7002
L	9002	(A,120,103) CHIP SOLID INDUCTOR	ATL7002
L	9003	(A,86,97) RADIAL INDUCTOR	LFCA2R2J
X	9001	(A,96,53) CERAMIC RESONATOR (15.7 MHz)	XSS3004
CN	101	(A,41,27) CONNECTOR	9604S-17C
CN	102	(A,113,61) CONNECTOR	9604S-10C
CN	103	(A,227,17) 11P CONNECTOR	52044-1145
CN	105	(A,266,34) CONNECTOR	9604S-07C
CN	108	3P JUMPER CONNECTOR	52147-0310
CN	109	(A,213,113) 15P SOCKET	XKP3090
CN	110	(A,169,113) 17P SOCKET	XKP3059
CN	111	(A,274,113) 21P SOCKET	XKP3091
CN	112	(A,91,41) CONNECTOR	9604S-15C
CN	125	(A,302,42) 6P PIN JACK	XKB3055
CN	130	(A,247,13) 13P FFC CONNECTOR	9604S-13C
CN	142	(A,302,98) 8P PIN JACK	XKB3067
CN	251	(A,39,92) 3P JUMPER CONNECTOR	52147-0310
CN	252	(A,37,77) 3P TOP POST	B3B-EH
	101	PCB BINDER	VEF1040

RESISTORS

R	103	(B,283,62)	RS1/16S222J
R	104	(B,283,52)	RS1/16S222J
R	105	(B,283,48)	RS1/16S331J
R	106	(B,293,40)	RS1/16S331J
R	107	(B,283,88)	RS1/16S331J
R	108	(B,293,81)	RS1/16S331J
R	109	(B,283,75)	RS1/16S331J
R	110	(B,293,68)	RS1/16S331J
R	111	(B,283,112)	RS1/16S222J
R	112	(B,283,106)	RS1/16S222J
R	113	(B,283,101)	RS1/16S331J
R	114	(B,293,96)	RS1/16S331J
R	129	(B,283,34)	RS1/16S331J
R	130	(B,283,25)	RS1/16S331J
R	145	(A,70,73)	RS1/16S102J
R	146	(A,71,74)	RS1/16S102J
R	147	(B,231,59)	RS1/16S102J
R	148	(B,233,51)	RS1/16S102J
R	149	(B,263,57)	RS1/16S104J
R	180	(B,278,97)	RS1/16S0R0J
R	181	(B,273,78)	RS1/16S0R0J
R	182	(B,275,75)	RS1/16S0R0J
R	183	(B,276,67)	RS1/16S0R0J
R	201	(A,208,85)	RS1/16S473J
R	202	(A,207,90)	RS1/16S473J
R	205	(B,208,85)	RS1/16S392J
R	206	(B,208,91)	RS1/16S392J
R	207	(B,210,85)	RS1/16S392J
R	208	(B,210,91)	RS1/16S392J
R	209	(B,216,85)	RS1/16S392J
R	210	(B,216,91)	RS1/16S392J
R	211	(B,219,85)	RS1/16S332J
R	212	(B,219,91)	RS1/16S332J
R	241	(A,206,70)	RS1/16S473J
R	242	(A,206,75)	RS1/16S473J
R	245	(B,205,70)	RS1/16S332J
R	246	(B,205,76)	RS1/16S332J
R	247	(B,207,70)	RS1/16S332J
R	248	(B,207,76)	RS1/16S332J
R	249	(B,214,70)	RS1/16S332J
R	250	(B,214,76)	RS1/16S332J
R	251	(B,216,70)	RS1/16S182J
R	252	(B,216,76)	RS1/16S182J
R	261	(A,189,53)	RS1/16S473J
R	262	(A,189,59)	RS1/16S473J
R	264	(B,186,60)	RS1/16S392J
R	265	(B,188,53)	RS1/16S332J
R	266	(B,188,60)	RS1/16S472J
R	267	(B,190,53)	RS1/16S332J
R	268	(B,190,60)	RS1/16S123J
R	269	(B,197,53)	RS1/16S332J
R	270	(B,197,60)	RS1/16S122J
R	271	(B,199,53)	RS1/16S182J
R	272	(B,199,60)	RS1/16S272J
R	274	(B,202,60)	RS1/16S271J
R	280	(B,53,104)	RS1/16S0R0J
R	303	(B,163,37)	RS1/16S101J
R	304	(B,158,49)	RS1/16S101J
R	305	(B,163,49)	RS1/16S101J
R	306	(B,164,61)	RS1/16S101J
R	307	(B,165,68)	RS1/16S101J
R	308	(B,173,73)	RS1/16S101J
R	311	(A,258,102) METAL OXIDE RESISTOR	RS1LMF101J
R	312	(A,266,102) METAL OXIDE RESISTOR	RS1LMF101J
R	430	(A,137,91)	RS1/16S104J
R	431	(A,130,95)	RS1/16S104J
R	432	(A,130,100)	RS1/16S104J
R	433	(A,137,99)	RS1/16S683J
R	434	(A,136,94)	RS1/16S393J
R	435	(A,134,97)	RS1/16S683J
R	436	(A,137,102)	RS1/16S683J
R	437	(A,53,106)	RS1/16S103J
R	438	(A,54,110)	RS1/16S103J
R	439	(A,56,110)	RS1/16S103J
R	440	(A,63,113)	RS1/16S103J
R	441	(A,146,94)	RS1/16S222J
R	442	(A,149,95)	RS1/16S104J
R	443	(B,57,108)	RS1/16S471J
R	444	(A,139,91)	RS1/16S104J
R	445	(A,55,101)	RS1/16S223J
R	447	(A,65,96)	RS1/16S472J
R	448	(A,70,113)	RS1/16S104J
R	449	(A,65,113)	RS1/16S822J
R	452	(A,153,44)	RS1/16S0R0J
R	459	(B,139,38)	RS1/16S103J
R	460	(B,139,43)	RS1/16S103J
R	464	(A,65,100)	RS1/16S0R0J
R	467	(A,146,36)	RS1/16S0R0J
R	471	(A,152,51)	RS1/16S0R0J
R	472	(A,156,63)	RS1/16S0R0J
R	479	(B,142,57)	RS1/16S103J
R	480	(B,142,62)	RS1/16S103J
R	484	(A,173,70)	RS1/16S104J
R	485	(A,170,77)	RS1/16S472J

Mark	No.	Description	Part No.
R	499	(B,146,69)	RS1/16S103J
R	500	(B,140,79)	RS1/16S103J
R	549	(B,159,69)	RS1/16S0R0J
R	550	(A,153,84)	RS1/16S0R0J
R	551	(A,67,113)	RS1/16S822J
R	9001	(B,94,54)	RS1/16S0R0J
R	9002	(A,98,94)	RS1/16S473J
R	9003	(B,92,54)	RS1/16S0R0J
R	9006	(B,103,89)	RS1/16S474J
R	9007	(B,93,89)	RS1/16S474J
R	9008	(A,80,109)	RS1/16S221J
R	9009	(A,65,85)	RS1/16S473J
R	9010	(B,107,48)	RS1/16S512J
R	9011	(A,63,76)	RS1/16S102J
R	9012	(A,63,73)	RS1/16S0R0J
R	9013	(B,112,45)	RS1/16S471J
R	9014	(B,104,54)	RS1/16S471J
R	9015	(B,102,54)	RS1/16S471J
R	9016	(B,100,54)	RS1/16S471J
R	9017	(B,98,54)	RS1/16S471J
R	9018	(B,96,54)	RS1/16S471J
R	9019	(B,98,76)	RS1/16S471J
R	9020	(B,99,76)	RS1/16S471J
R	9021	(B,101,76)	RS1/16S471J
R	9022	(B,103,76)	RS1/16S471J
R	9023	(B,112,67)	RS1/16S103J
R	9025	(B,103,67)	RS1/16S100J
R	9026	(B,106,67)	RS1/16S103J
R	9028	(B,118,45)	RS1/16S104J
R	9030	(A,68,79)	RS1/16S470J
R	9031	(A,65,54)	RS1/16S104J
R	9032	(A,62,53)	RS1/16S104J
R	9033	(B,89,48)	RS1/16S104J
R	9036	(A,90,89)	RS1/16S221J
R	9037	(B,75,98)	RS1/16S104J
R	9039	(A,87,57)	RS1/16S104J
R	9041	(B,116,45)	RS1/16S104J
R	9045	(A,97,46)	RS1/16S471J
R	9046	(A,107,46)	RS1/16S471J
R	9047	(A,98,46)	RS1/16S103J
R	9048	(A,98,43)	RS1/16S103J
R	9053	(A,102,29)	RS1/16S221J
R	9060	(B,98,68)	RS1/16S473J
R	9062	(B,87,48)	RS1/16S471J
R	9064	(A,54,74)	RS1/16S103J
R	9065	(A,56,74)	RS1/16S103J
R	9066	(A,62,72)	RS1/16S103J
R	9067	(A,59,83)	RS1/16S103J
R	9068	(A,64,71)	RS1/16S0R0J
R	9071	(B,70,50)	RS1/16S221J
R	9072	(B,64,50)	RS1/16S221J
R	9073	(A,74,56)	RS1/16S221J
R	9074	(A,79,52)	RS1/16S221J
R	9081	(A,119,73)	RS1/16S221J
R	9082	(A,121,71)	RS1/16S274J
R	9091	(A,132,39)	RS1/16S0R0J
R	9092	(A,129,38)	RS1/16S0R0J
R	9093	(A,133,51)	RS1/16S0R0J

CAPACITORS

Mark	No.	Description	Part No.
C	115	(B,262,98)	CKSRYB103K50
C	116	(B,264,97)	CKSRYB103K50
C	117	(B,283,116)	CCSRCH220J50
C	118	(B,285,109)	CCSRCH220J50
C	121	(A,280,34)	CEAT100M50
C	122	(A,280,25)	CEAT100M50
C	123	(A,280,19)	CEAT100M50
C	124	(A,280,11)	CEAT100M50
C	125	(A,280,62)	CEAT100M50
C	126	(A,280,53)	CEAT100M50
C	127	(A,280,47)	CEAT100M50
C	128	(A,280,40)	CEAT100M50
C	131	(A,280,87)	CEAT100M50
C	132	(A,280,80)	CEAT100M50
C	133	(A,280,74)	CEAT100M50
C	134	(A,280,67)	CEAT100M50
C	135	(A,280,114)	CEAT100M50
C	136	(A,280,106)	CEAT100M50
C	137	(A,280,101)	CEAT100M50
C	138	(A,280,93)	CEAT100M50
C	139	(A,50,101)	CEAT100M50
C	140	(A,50,94)	CEAT100M50
C	141	(B,236,50)	CKSRYB104K50
C	145	(B,238,54)	CCSRCH101J50
C	146	(B,238,50)	CCSRCH101J50
C	147	(A,249,68)	CKSRYB103K50
C	148	(B,229,61)	CKSRYB223K25
C	149	(B,240,59)	CKSRYB473K25
C	150	(B,237,59)	CKSQYB154K16
C	151	(B,234,62)	CKSRYB103K50
C	152	(B,235,54)	CKSRYB223K25
C	153	(B,233,56)	CKSRYB473K25
C	154	(B,230,53)	CKSQYB154K16
C	155	(A,225,43)	CEAT470M25
C	165	(A,236,86)	CEAT1R0M50
C	166	(A,243,86)	CEAT1R0M50
C	179	(B,294,76)	CKSRYB103K50
C	180	(A,277,19)	CKSRYB103K50
C	199	(A,281,50)	CKSRYB103K50
C	201	(A,202,85)	CEAT2R2M50
C	202	(A,203,92)	CEAT2R2M50
C	205	(A,212,85)	CCSRCH331J50
C	206	(A,212,90)	CCSRCH331J50
C	207	(B,212,85)	CCSRCH331J50
C	208	(B,212,91)	CCSRCH331J50
C	217	(A,221,85)	CKSRYB103K50
C	218	(A,221,90)	CKSRYB103K50
C	241	(A,200,71)	CEAT2R2M50
C	242	(A,200,78)	CEAT2R2M50
C	245	(A,211,70)	CCSRCH331J50
C	246	(A,211,75)	CCSRCH331J50
C	247	(B,209,70)	CCSRCH331J50
C	248	(B,209,76)	CCSRCH331J50
C	251	(A,219,68)	CKSRYB103K50
C	252	(A,219,75)	CKSRYB103K50
C	253	(A,130,91)	CKSRYB103K50
C	254	(A,157,96)	CEAT101M25
C	256	(A,135,84)	CKSRYB103K50
C	261	(A,183,54)	CEAT2R2M50

Mark	No.	Description	Part No.
C	262	(A,183,62)	CEAT2R2M50
C	264	(A,191,59)	CCSRCH331J50
C	265	(A,194,53)	CCSRCH331J50
C	266	(A,194,59)	CCSRCH221J50
C	267	(B,193,53)	CCSRCH331J50
C	268	(B,193,60)	CCSRCH101J50
C	271	(A,202,53)	CKSRYB103K50
C	272	(A,202,58)	CKSRYB103K50
C	325	(A,143,39) ELECT. CAPACITOR	CEAT220M50
C	326	(A,143,46) ELECT. CAPACITOR	CEAT220M50
C	333	(A,251,93)	CEAT101M10
C	334	(A,268,81)	CEAT101M10
C	345	(A,145,57) ELECT. CAPACITOR	CEAT220M50
C	346	(A,145,64) ELECT. CAPACITOR	CEAT220M50
C	362	(A,185,79)	CEAT100M50
C	365	(A,142,73) ELECT. CAPACITOR	CEAT220M50
C	366	(A,142,80) ELECT. CAPACITOR	CEANP4R7M50
C	392	(B,91,97)	CKSRYB102K50
C	1031	(A,286,65)	CCSRCH220J50
C	1041	(B,287,55)	CCSRCH220J50
C	5001	(B,230,10)	CKSRYB102K50
C	5002	(B,232,10)	CKSRYB103K50
C	5003	(B,234,10)	CKSRYB105K10
C	5025	(A,159,11)	CKSRYB102K50
C	5026	(A,162,12)	CKSRYB102K50
C	5027	(A,167,14)	CKSRYB102K50
C	5028	(A,180,15)	CCSRCH220J50
C	9004	(B,84,88)	CKSRYB103K50
C	9005	(A,78,106)	CEJQ2R2M50
C	9006	(A,95,93)	CKSRYB105K10
C	9007	(A,79,92) ELECT. CAPACITOR	CEAT331M6R3
C	9008	(B,77,90)	CKSRYB103K50
C	9011	(B,95,89)	CKSRYB473K16
C	9014	(B,87,88)	CKSRYB473K16
C	9015	(A,94,102)	CKSRYB102K50
C	9018	(B,72,72)	CKSRYB104K50
C	9030	(A,272,106)	CEAT101M25
C	9081	(A,121,69)	CKSRYB103K50

B DSP ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	601	(A,109,36) DA I/F TRANSCEIVER	AK4114VQ
IC	701	(A,77,29) CODEC IC	AK4626AVQ
IC	801	(A,37,39) DSP IC	DSPC56371AF180
IC	802	(A,33,26) IC	TC7WU04FU
IC	871	(B,65,43) IC	TC7WH125FU
⚠ IC	901	(B,114,24) REGURATOR IC	PQ1LAX95MSPQ
⚠ IC	902	(A,99,24) REGURATOR IC	PQ1LAX95MSPQ
IC	952	(A,16,32) IC	TC74VHCT541AFTS1
D	701	(A,81,19) DIODE	MA152WA(A)
D	702	(B,82,18) DIODE	MA152WK(A)
D	901	(B,107,21) DIODE	UDZS5R6(B)(A)
D	902	(B,102,20) DIODE	UDZS5R6(B)(A)
L	601	(B,103,41) CHIP SOLID INDUCTOR	QTL1013
L	602	(A,100,36) CHIP SOLID INDUCTOR	QTL1013
L	701	(B,68,30) CHIP SOLID INDUCTOR	QTL1013
L	702	(A,93,22) CHIP SOLID INDUCTOR	QTL1013
L	801	(A,37,25) CHIP SOLID INDUCTOR	QTL1013
L	802	(A,42,29) CHIP SOLID INDUCTOR	ATL7002
L	803	(A,51,42) CHIP SOLID INDUCTOR	ATL7002
L	804	(B,29,34) CHIP SOLID INDUCTOR	QTL1013
L	871	(B,69,45) CHIP SOLID INDUCTOR	QTL1013
L	901	(B,105,18) CHIP SOLID INDUCTOR	ATL7002
L	902	(B,100,18) CHIP SOLID INDUCTOR	ATL7002
L	952	(A,21,28) CHIP SOLID INDUCTOR	QTL1013
JA	501	(A,142,22) JACK	AKB7131
X	801	(A,23,22) CRYSTAL RESONATOR (24.576 MHz)	XSS3003
CN	603	(A,107,50) 5P CONNECTOR	VKN1236
CN	701	(A,83,14) 19P SOCKET	XKP3080
CN	901	(A,116,14) 13P SOCKET	XKP3077
CN	951	(A,45,14) 15P SOCKET	XKP3078

RESISTORS

R	403	(A,122,42)	RS1/16SS0R0J
R	501	(B,131,16)	RS1/16S750J
R	502	(B,134,30)	RS1/16S750J
R	516	(B,114,36)	RS1/16S100J
R	517	(B,130,30)	RS1/16S100J
R	572	(A,92,40)	RS1/16S0R0J
R	573	(A,91,44)	RS1/16SS0R0J
R	574	(A,76,42)	RS1/16SS0R0J
R	575	(A,76,40)	RS1/16SS0R0J
R	576	(A,78,44)	RS1/16SS0R0J
R	604	(B,114,46)	RS1/16S104J
R	605	(B,112,46)	RS1/16S104J
R	606	(B,110,46)	RS1/16S104J
R	612	(A,117,33)	RS1/16S0R0J
R	614	(A,102,38)	RS1/16SS101J
R	615	(A,104,30)	RS1/16SS470J
R	616	(A,102,34)	RS1/16SS101J
R	617	(B,105,31)	RS1/16S101J
R	618	(B,107,31)	RS1/16S101J
R	620	(A,106,30)	RS1/16SS470J
R	621	(B,108,36)	RS1/16S220J
R	624	(A,112,28) RESISTOR ARRAY	RAB4CQ101J
R	627	(B,112,32)	RS1/16S103J
R	628	(A,117,38)	RS1/16S1802F
R	665	(A,99,58)	RS1/16SS0R0J
R	666	(A,98,58)	RS1/16SS0R0J
R	667	(A,97,58)	RS1/16SS0R0J
R	701	(B,78,35)	RS1/16S470J
R	702	(B,75,35)	RS1/16S101J
R	704	(B,70,27)	RS1/16S4R7J
R	705	(A,60,18)	RS1/16SS101J
R	706	(A,63,18)	RS1/16SS101J
R	707	(A,65,18)	RS1/16SS101J
R	708	(A,68,18)	RS1/16SS101J
R	709	(A,70,18)	RS1/16SS101J
R	710	(A,73,18)	RS1/16SS101J
R	711	(A,75,18)	RS1/16SS101J
R	712	(A,78,18)	RS1/16SS101J
R	713	(A,86,30)	RS1/16S470J
R	714	(A,85,36) RESISTOR ARRAY	RAB4CQ101J
R	801	(A,48,48)	RS1/16SS470J
R	802	(A,40,50) RESISTOR ARRAY	RAB4CQ101J
R	803	(B,44,48)	RS1/16S103J
R	804	(B,42,48)	RS1/16S103J
R	805	(B,39,42)	RS1/16S103J

Mark	No.		Description	Part No.
R	806	(B,37,42)		RS1/16S103J
R	807	(B,35,42)		RS1/16S473J
R	810	(A,26,39)		RS1/16SS473J
R	811	(A,24,37)		RS1/16SS472J
R	812	(B,27,43)		RS1/16S101J
R	813	(A,24,34)		RS1/16SS103J
R	815	(A,25,26)		RS1/16SS105J
R	816	(A,23,26)		RS1/16SS471J
R	817	(A,34,28)		RS1/16SS101J
R	818	(B,35,23)		RS1/16S220J
R	819	(B,26,29)		RS1/16S101J
R	820	(B,28,29)		RS1/16S0R0J
R	822	(B,36,30)		RS1/16S103J
R	823	(B,36,36)		RS1/16S473J
R	827	(B,48,38)		RS1/16S470J
R	831	(B,42,31)		RS1/16S470J
R	832	(A,47,41)		RS1/16SS470J
R	833	(A,48,45)	RESISTOR ARRAY	RAB4CQ470J
R	840	(A,24,33)		RS1/16SS101J
R	841	(A,67,38)		RS1/16S473J
R	852	(B,43,27)		RS1/16S222J
R	871	(B,59,36)		RS1/16S470J
R	872	(B,61,36)		RS1/16S470J
R	873	(B,61,44)		RS1/16S470J
R	874	(B,59,44)		RS1/16S470J
R	905	(B,118,17)		RS1/16S104J
R	906	(B,120,15)		RS1/16S104J
R	908	(A,123,13)		RS1/16SS0R0J
R	919	(A,113,20)		RS1/16S1202F
R	920	(A,115,20)		RS1/16S2002F
R	921	(A,101,20)		RS1/16S1202F
R	922	(A,98,20)	CHIP RESISTOR	RS1/16S1000F
R	951	(B,25,33)		RS1/16S101J
R	952	(B,23,33)		RS1/16S101J
R	953	(B,21,33)		RS1/16S101J
R	954	(A,17,26)	RESISTOR ARRAY	RAB4CQ101J
R	955	(A,14,26)	RESISTOR ARRAY	RAB4CQ101J
R	962	(A,32,18)	RESISTOR ARRAY	RAB4CQ104J
R	970	(A,37,18)	RESISTOR ARRAY	RAB4CQ104J
R	981	(A,14,38)		RS1/16SS0R0J
R	982	(A,15,38)		RS1/16SS0R0J

CAPACITORS

C	503	(B,127,16)		CKSRYB103K50
C	504	(B,132,30)		CKSRYB103K50
C	606	(A,102,40)		CKSRYB104K16
C	607	(A,96,39)		CEVW470M6R3
C	608	(A,101,36)		CCSRCH471J50
C	609	(A,102,36)		CKSRYB104K16
C	614	(B,110,32)		CKSRYB104K16
C	617	(B,114,32)		CKSRYB102K50
C	618	(A,117,28)		CEVW470M6R3
C	619	(A,118,35)		CKSSYB104K10
C	620	(A,116,35)		CCSRCH471J50
C	621	(A,116,38)		CKSRYB474K10
C	701	(A,67,32)		CKSSYB103K16
C	703	(A,64,23)		CEVW101M16
C	704	(A,67,29)		CKSRYB104K16
C	705	(A,68,30)		CCSSCH101J50
C	706	(B,66,26)		CKSRYB104K16
C	707	(B,60,19)		CKSRYB471K50
C	708	(B,63,19)		CKSRYB471K50
C	709	(B,65,19)		CKSRYB471K50
C	710	(B,68,19)		CKSRYB471K50
C	711	(B,70,19)		CKSRYB471K50
C	712	(B,73,19)		CKSRYB471K50
C	713	(B,75,19)		CKSRYB471K50
C	714	(B,78,19)		CKSRYB471K50
C	715	(A,90,29)		CEVW101M16
C	716	(A,86,27)		CKSRYB104K16
C	717	(A,85,27)		CKSSYB471K50
C	718	(A,87,20)		CEVW470M6R3
C	720	(A,85,24)		CKSSYB104K10
C	763	(B,53,36)		CKSRYB471K50
C	764	(B,55,36)		CKSRYB104K16
C	802	(A,42,50)		CKSSYB104K10
C	803	(A,37,49)		CKSSYB471K50
C	804	(A,37,50)		CKSSYB104K10
C	806	(A,31,50)		CKSSYB104K10
C	808	(A,26,43)		CKSSYB104K10
C	809	(A,27,41)		CKSSYB471K50
C	810	(A,26,41)		CKSSYB104K10
C	814	(A,27,33)		CKSSYB471K50
C	815	(A,25,33)		CKSSYB104K10
C	816	(A,21,26)		CCSSCH5R0C50
C	817	(A,27,26)		CCSSCH5R0C50
C	818	(A,35,23)		CCSRCH471J50
C	819	(A,35,22)		CKSSYB104K10
C	821	(A,30,30)		CKSSYB471K50
C	822	(A,30,29)		CKSSYB104K10
C	823	(A,32,30)		CKSSYB471K50
C	824	(A,32,28)		CKSSYB104K10
C	825	(B,32,39)		CKSRYB103K50
C	826	(A,38,29)		CKSSYB471K50
C	827	(A,38,28)		CKSSYB104K10
C	829	(A,47,36)		CKSSYB104K10
C	830	(A,47,39)		CKSSYB471K50
C	831	(A,48,39)		CKSSYB104K10
C	833	(A,48,43)		CKSSYB104K10
C	834	(A,41,23)		CEVW101M16
C	835	(A,57,42)	CHIP ELECT.CAPACITOR	CEVW101M4
C	872	(B,70,41)		CKSRYB104K16
C	907	(B,110,23)		CKSRYB105K16
C	908	(A,115,22)		CKSRYB105K16
C	909	(B,97,26)		CKSRYB105K16
C	910	(B,97,22)		CKSRYB105K16
C	916	(B,69,34)		CKSRYB471K50
C	917	(B,71,34)		CKSRYB103K50
C	918	(B,81,36)		CKSRYB104K16
C	919	(B,82,36)		CKSRYB471K50
C	955	(A,22,31)		CKSRYB104K16

C POWER PACK ASSY

MISCELLANEOUS

⚠ IC	601	(A,265,14)	2CH POWER IC	PAC014A
⚠ IC	603	(A,137,14)	3CH POWER IC	PAC015A
⚠ IC	610	(A,59,28)	PROTECTOR(1A)	AEK7009
⚠ IC	701	(A,100,80)	IC PROTECTOR	ICP-N10

Mark	No.	Description	Part No.
⚠	IC 702	(A,84,81) IC PROTECTOR	ICP-N10
⚠	IC 803	(B,238,93) IC	BA05FP
⚠	IC 804	(A,279,111) REGULATOR IC	KIA7809API
⚠	IC 805	(B,270,132) LDO REGULATOR(5V)	NJM2831F05
	Q 501	(B,91,38) TRANSISTOR	2SC5938A
	Q 505	(A,116,47) TRANSISTOR	2SC2240
	Q 601	(B,94,44) TRANSISTOR	2SC5938A
	Q 602	(B,224,43) TRANSISTOR	2SC5938A
	Q 605	(A,123,40) TRANSISTOR	2SC2240
	Q 606	(A,252,40) TRANSISTOR	2SC2240
	Q 652	(B,219,37) TRANSISTOR	2SC5938A
	Q 656	(A,244,47) TRANSISTOR	2SC2240
	Q 681	(B,82,48) TRANSISTOR	2SC5938A
	Q 683	(A,59,65) TRANSISTOR	2SC2240
	Q 696	(B,282,24) TRANSISTOR	2SC4081
	Q 697	(B,282,29) TRANSISTOR	2SC4081
	Q 698	(B,246,67) TRANSISTOR	RT1N241M
⚠	Q 701	(A,110,72) TRANSISTOR	2SC5511
⚠	Q 702	(A,96,86) TRANSISTOR	2SA2005
	Q 703	(A,155,76) TRANSISTOR	2SA1145
	Q 704	(A,166,79) TRANSISTOR	2SC2240
	Q 721	(A,142,72) TRANSISTOR	2SA1145
	Q 722	(A,161,74) TRANSISTOR	2SC2240
	Q 724	(B,291,72) TRANSISTOR	RT1N241M
	Q 803	(B,265,141) DIGITAL TR(SC-70)	RT1P241M
	Q 804	(B,268,141) TRANSISTOR	RT1N241M
	Q 805	(B,274,143) DIGITAL TR(SC-70)	RT1P241M
	Q 806	(B,267,146) TRANSISTOR	RT1N241M
	Q 807	(B,276,53) TRANSISTOR	RT3P22M
	Q 808	(B,283,57) TRANSISTOR	RT3N22M
	D 601	(A,127,57) DIODE	1SS133(A)
	D 603	(A,121,57) DIODE	1SS133(A)
	D 606	(A,260,57) DIODE	1SS133(A)
	D 608	(A,253,52) DIODE	1SS133(A)
	D 652	(A,262,57) DIODE	1SS133(A)
	D 654	(A,242,52) DIODE	1SS133(A)
	D 683	(A,132,57) DIODE	1SS133(A)
	D 684	(A,65,72) DIODE	1SS133(A)
	D 701	(A,9,88) DIODE	D5SBA20(B)(A)
	D 711	(A,195,103) ZENER DIODE	MTZJ22D(A)
	D 712	(A,191,103) DIODE	MTZJ6R8(B)(A)
	D 713	(A,114,77) DIODE	1SS133(A)
	D 741	(B,152,136) DIODE	1SS355(A)
	D 742	(B,167,140) DIODE	1SS355(A)
	D 743	(B,121,129) DIODE	1SS355(A)
	D 744	(B,138,139) DIODE	1SS355(A)
	D 745	(B,115,129) DIODE	1SS355(A)
	D 752	(B,170,135) DIODE	1SS355(A)
	D 754	(B,141,132) DIODE	1SS355(A)
	D 758	(B,73,136) DIODE	1SS355(A)
	D 777	(A,130,57) DIODE	1SS133(A)
	D 778	(A,110,57) DIODE	1SS133(A)
	D 801	(B,222,113) BRIDGE DIODE	S1WB(A)60SD(A)
	D 806	(A,283,65) DIODE	MTZJ6R2(B)(A)
	D 807	(A,280,70) DIODE	1SS133(A)
	D 827	(A,262,132) DIODE	MTZJ6R2(B)(A)
	D 828	(A,227,99) DIODE	MTZJ6R2(B)(A)
	D 829	(A,239,128) DIODE	D3SBA20(B)(A)
	L 751	(A,160,108) COIL	ATH1004
	L 752	(A,173,108) COIL	ATH1004
	L 753	(A,120,107) COIL	ATH1004
	L 761	(A,130,108) COIL	ATH1004
	L 762	(A,142,108) COIL	ATH1004
	J 43	11P PARALLEL WIRE	XDX3066
	KN 601	(A,65,23) WRAPPING TERMINAL	VNF1084
	RY 501	(A,75,132) RELAY	ASR7001
	RY 751	(A,173,130) RELAY	ASR7001
	RY 752	(A,141,126) RELAY	ASR7001
	RY 753	(A,117,120) RELAY	ASR7001
	CN 701	(A,212,134) 11PJUMPER CONNECTOR	52147-1110
	CN 702	(A,200,106) 6P JUMPER CONNECTOR	52147-0610
	CN 704	(A,290,45) 17P PLUG	XKM3007
	CN 751	SP TERMINAL 4-P(V0)	XKE3041
	CN 752	SP TERMINAL 6-P(V0)	XKE3049
	CN 803	(A,224,129) 6P PLUG	KM200TA6
	CN 805	(A,317,153) 13P PLUG	XKP3066
	CN 807	(A,317,82) 15P PLUG	XKP3067
	CN 813	(A,310,38) CONNECTOR	9604S-15C
	CN 815	(A,290,89) 15P PLUG	XKM3010
	CN 816	(A,290,126) 21P PLUG	XKM3011
	CN 827	19P PLUG	XKP3069
	810	(A,277,90) 11P CABLE HOLDER	51048-1100

RESISTORS

Mark	No.	Description	Part No.
	R 601	(A,99,48)	RD1/4PU102J
	R 602	(A,228,42)	RD1/4PU102J
	R 603	(B,96,47)	RS1/16S103J
	R 604	(B,225,47)	RS1/16S103J
	R 609	(A,96,35)	RD1/4PU563J
	R 610	(A,225,35)	RD1/4PU563J
	R 611	(A,95,28)	RD1/4PU182J
	R 612	(A,223,28)	RD1/4PU182J
	R 613	(A,119,21)	RD1/4PU563J
	R 614	(A,247,21)	RD1/4PU563J
	R 615	(A,128,36)	RD1/4PU331J
⚠	R 617	(A,119,31) RESISTOR (0.22, 5W)	ACN7094
	R 619	(A,124,52)	RD1/4PU182J
	R 620	(A,257,36)	RD1/4PU331J
	R 621	(A,129,49)	RD1/4PU821J
⚠	R 622	(A,248,31) RESISTOR (0.22, 5W)	ACN7094
	R 623	(A,121,48)	RD1/4PU223J
	R 624	(A,257,52)	RD1/4PU182J
	R 626	(A,258,49)	RD1/4PU821J
	R 628	(A,250,48)	RD1/4PU223J
	R 652	(A,215,36)	RD1/4PU102J
	R 654	(B,219,41)	RS1/16S103J
	R 660	(A,220,29)	RD1/4PU563J
	R 662	(A,216,20)	RD1/4PU182J
	R 664	(A,238,21)	RD1/4PU563J
	R 666	(A,240,35)	RD1/4PU331J
⚠	R 668	(A,239,31) RESISTOR (0.22, 5W)	ACN7094
	R 670	(A,245,52)	RD1/4PU182J
	R 672	(A,240,57)	RD1/4PU821J
	R 674	(A,236,38)	RD1/4PU223J
	R 681	(A,73,51)	RD1/4PU102J
	R 682	(B,77,49)	RS1/16S103J
	R 685	(B,80,37)	RS1/16S563J
	R 686	(B,85,21)	RS1/16S182J
	R 687	(A,88,11)	RD1/4PU563J

Mark	No.		Description	Part No.
	R	690	(A,60,52)	RD1/4PU331J
⚠	R	691	(A,55,55) RESISTOR (0.22, 5W)	ACN7094
	R	692	(A,70,72)	RD1/4PU182J
	R	693	(A,67,77)	RD1/4PU821J
	R	694	(A,62,72)	RD1/4PU223J
	R	696	(B,281,38)	RS1/16S103J
	R	697	(B,255,68)	RS1/16S103J
	R	698	(B,243,67)	RS1/16S333J
	R	701	(A,122,85)	RD1/4PU472J
	R	702	(A,109,87)	RD1/4PU472J
	R	703	(A,151,72)	RD1/4PU392J
	R	704	(A,148,77)	RD1/4PU392J
	R	705	(A,281,82)	RD1/4PU473J
	R	706	(A,277,83)	RD1/4PU473J
	R	707	(A,133,80)	RD1/4PU184J
	R	708	(A,147,81)	RD1/4PU184J
⚠	R	709	(A,104,72) METAL OXIDE RESISTOR	RS1LMF272J
⚠	R	710	(A,89,93) METAL OXIDE RESISTOR	RS1LMF272J
⚠	R	711	(A,181,86) METAL OXIDE RESISTOR	RS2LMF242J
	R	713	(A,114,85)	RD1/4PU102J
	R	721	(A,145,77)	RD1/4PU103J
	R	722	(A,125,78)	RD1/4PU103J
	R	723	(A,271,78)	RD1/4PU473J
	R	724	(A,274,83)	RD1/4PU473J
	R	725	(A,276,74)	RD1/4PU103J
	R	726	(B,286,62)	RS1/16S473J
	R	727	(B,283,62)	RS1/16S103J
	R	728	(B,106,9)	RS1/16S683J
	R	730	(B,214,14)	RS1/16S683J
	R	731	(A,122,73)	RD1/4PU220J
	R	732	(A,101,89)	RD1/4PU220J
	R	740	(B,87,141)	RS1/16S683J
	R	741	(B,152,140)	RS1/16S472J
	R	742	(B,169,143)	RS1/16S472J
	R	743	(B,121,134)	RS1/16S472J
	R	744	(B,137,143)	RS1/16S472J
	R	745	(B,110,131)	RS1/16S472J
⚠	R	751	(A,158,119) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	752	(A,185,120) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	753	(A,156,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R	754	(A,181,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R	755	(A,103,117) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	756	(A,101,126) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R	761	(A,125,117) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	762	(A,155,119) CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R	763	(A,124,132) METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R	764	(A,149,139) METAL OXIDE RESISTOR	RS1LMF4R7J
	R	777	(A,86,37)	RD1/4PU102J
	R	778	(B,90,42)	RS1/16S103J
	R	781	(A,92,30)	RD1/4PU563J
	R	782	(A,89,22)	RD1/4PU182J
	R	783	(A,109,21)	RD1/4PU563J
	R	784	(A,116,35)	RD1/4PU331J
⚠	R	785	(A,110,31) RESISTOR (0.22, 5W)	ACN7094
	R	786	(A,113,57)	RD1/4PU182J
	R	787	(A,106,59)	RD1/4PU821J
	R	788	(A,107,38)	RD1/4PU223J
	R	806	(B,280,48)	RS1/16S103J
	R	807	(B,278,48)	RS1/16S103J
	R	808	(B,279,53)	RS1/16S102J
	R	813	(B,273,131)	RS1/16S102J
	R	885	(B,310,60)	RS1/16S221J
	R	886	(B,310,64)	RS1/16S221J
	R	887	(B,310,68)	RS1/16S221J
	R	888	(B,324,76)	RS1/16S221J
	R	1101	(B,273,68)	RS1/16S0R0J
	R	1102	(B,274,61)	RS1/16S0R0J
	R	1103	(B,70,136)	RS1/16S0R0J
	R	1104	(B,138,132)	RS1/16S0R0J
	R	1105	(B,168,135)	RS1/16S0R0J
	R	1109	(B,285,58)	RS1/16S0R0J

CAPACITORS

	C	603	(B,99,39)	CKSRYB331K50
	C	604	(B,227,38)	CKSRYB331K50
	C	605	(A,101,38)	CEAT4R7M50
	C	606	(A,230,38)	CEAT4R7M50
	C	607	(B,100,20)	CCSRCH470J50
	C	608	(B,230,17)	CCSRCH470J50
	C	609	(A,96,32)	CEAT101M16
	C	610	(A,225,32)	CEAT101M16
	C	613	(B,121,27)	CCSRCJ3R0C50
	C	614	(B,250,28)	CCSRCJ3R0C50
	C	615	(A,121,45)	CEANP2R2M50
	C	616	(A,250,45)	CEANP2R2M50
	C	654	(B,217,33)	CKSRYB331K50
	C	656	(A,215,33)	CEAT4R7M50
	C	658	(B,221,17)	CCSRCH470J50
	C	660	(A,219,25)	CEAT101M16
	C	664	(B,241,24)	CCSRCJ3R0C50
	C	666	(A,239,49)	CEANP2R2M50
	C	682	(B,80,43)	CKSRYB331K50
	C	683	(A,83,43)	CEAT4R7M50
	C	684	(B,87,18)	CCSRCH470J50
	C	685	(A,83,37)	CEAT101M16
	C	687	(B,87,8)	CCSRCJ3R0C50
	C	688	(A,75,78)	CEANP2R2M50
	C	696	(B,281,36)	CKSRYB102K50
	C	697	(A,286,29)	CEAT221M6R3
	C	701	(A,49,80) E-CAP 5600/71	XCH3027
	C	702	(A,49,107) E-CAP 5600/71	XCH3027
	C	705	(A,156,81) ELECT. CAPACITOR	CEAT100M2A
	C	706	(A,142,84) ELECT. CAPACITOR	CEAT100M2A
	C	711	(A,195,99) ELECT. CAPACITOR	CEAT101M35
	C	712	(A,188,105)	CEAT101M10
	C	740	(A,90,136)	CEAT101M25
	C	751	(A,159,143) FILM CAPACITOR	CQMBA104J50
	C	752	(A,181,150) FILM CAPACITOR	CQMBA104J50
	C	755	(A,103,147) FILM CAPACITOR	CQMBA104J50
	C	761	(A,122,139) FILM CAPACITOR	CQMBA104J50
	C	762	(A,152,145) FILM CAPACITOR	CQMBA104J50
	C	778	(B,89,34)	CKSRYB331K50
	C	779	(A,86,33)	CEAT4R7M50
	C	780	(B,93,18)	CCSRCH470J50
	C	781	(A,92,27)	CEAT101M16
	C	783	(B,112,24)	CCSRCJ3R0C50
	C	784	(A,110,48)	CEANP2R2M50
	C	801	(A,248,114) ELECT. CAPACITOR	CEAT222M25

Mark	No.		Description	Part No.
C	802	(A,249,100)	ELECT. CAPACITOR	CEAT222M25
C	806	(B,281,53)		CKSRYB105K16
C	807	(B,233,89)		CKSRYB103K25
C	808	(A,245,142)	ELECT. CAPACITOR	CEAT472M16
C	809	(A,232,95)		CEAT101M10
C	810	(A,266,133)		CEAT101M10
C	811	(B,276,128)		CKSRYB103K25
C	812	(B,272,111)		CKSRYB103K25
C	813	(A,272,118)		CEAT101M16
C	850	(A,210,92)		CEAT101M10
C	860	(A,282,159)		CEAT101M25
C	870	(B,249,134)		CKSRYB104K50

D TRANS2 ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
⚠ IC	853	(A,32,204)	PROTECTOR(4A)	AEK7018
J	21		JUMPER WIRE 11P	D20PYY1130E
CN	1201	(A,35,183)	4P JUMPER CONNECTOR	52147-0410
	851	(A,49,207)	11P CABLE HOLDER	51048-1100

E COMPONENT VIDEO ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
IC	551	(B,240,208)	LOGIC IC	TC74HC4052AF
IC	552	(B,260,214)	LOGIC IC	TC74HC4052AF
IC	553	(B,213,206)	VIDEO IC	NJM2581M
JA	551	(A,253,178)	6P RCA PINJACK	XKB3025
JA	552	(A,211,178)	6P RCA PINJACK	XKB3025
CN	551	(A,196,213)	CONNECTOR	9604S-07C
	390	(A,235,239)	PCB BINDER	VEF1040

RESISTORS

Mark	No.		Description	Part No.
R	553	(B,242,194)		RS1/16S750J
R	554	(B,256,193)		RS1/16S750J
R	555	(B,270,193)		RS1/16S750J
R	556	(B,237,194)		RS1/16S750J
R	557	(B,251,196)		RS1/16S750J
R	558	(B,266,186)		RS1/16S750J
R	559	(B,199,196)		RS1/16S750J
R	560	(B,220,195)		RS1/16S750J
R	561	(B,228,193)		RS1/16S750J
R	562	(B,193,195)		RS1/16S750J
R	563	(B,217,199)		RS1/16S750J
R	564	(B,218,195)		RS1/16S750J
R	566	(B,243,218)		RS1/16S102J
R	567	(B,248,202)		RS1/16S102J
R	568	(B,248,204)		RS1/16S102J
R	569	(B,250,218)		RS1/16S102J
R	571	(B,254,228)		RS1/16S102J
R	572	(B,254,226)		RS1/16S102J
R	573	(B,229,202)		RS1/16S0R0J
R	574	(B,264,202)		RS1/16S0R0J
R	581	(B,247,209)		RS1/16S222J
R	582	(A,245,221)		RD1/4PU222J

CAPACITORS

Mark	No.		Description	Part No.
C	567	(B,262,186)		CKSRYB103K50
C	568	(B,204,186)		CKSRYB103K50
C	569	(B,246,216)		CKSRYB473K50
C	570	(B,233,208)		CKSRYB473K50
C	571	(B,254,213)		CKSRYB473K50
C	572	(B,267,214)		CKSRYB473K50
C	577	(B,213,214)		CKSRYB103K50
C	579	(A,205,205)		CEAT101M10
C	580	(A,199,205)		CEAT101M10
C	582	(B,212,199)		CKSRYB103K50

F 5.1CH INPUT ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
CN	307	(A,125,216)	7P CONNECTOR	52044-0745
CN	309	(A,167,225)	PIN JACK(4P)	XKB3035

RESISTORS

Mark	No.		Description	Part No.
R	1001	(B,147,233)		RS1/16S474J
R	1002	(B,150,226)		RS1/16S474J
R	1003	(B,149,236)		RS1/16S331J
R	1004	(B,150,228)		RS1/16S331J
R	1009	(B,150,224)		RS1/16S474J
R	1010	(B,151,212)		RS1/16S474J
R	1011	(B,150,222)		RS1/16S331J
R	1012	(B,150,214)		RS1/16S331J

CAPACITORS

Mark	No.		Description	Part No.
C	1001	(B,151,233)		CCSRCH101J50
C	1002	(B,151,230)		CCSRCH101J50
C	1003	(B,143,233)		CKSRYB221K50
C	1004	(B,147,230)		CKSRYB221K50
C	1009	(A,146,236)		CEAT4R7M50
C	1010	(A,146,228)		CEAT4R7M50
C	1012	(B,159,226)		CKSRYB103K50
C	1013	(B,151,219)		CCSRCH101J50
C	1014	(B,151,216)		CCSRCH101J50
C	1015	(B,147,224)		CKSRYB221K50
C	1016	(B,147,216)		CKSRYB221K50
C	1021	(A,146,214)		CEAT4R7M50
C	1022	(A,146,221)		CEAT4R7M50

G TRANS3 ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
⚠ IC	357	(A,100,225)	PROTECTOR(800MA)	AEK7008
D	363	(A,86,238)	DIODE	1SR139-400(A)
J	22		3P PARALLEL WIRE	XDX3064
	891	(A,106,233)	3P CABLE HOLDER	51048-0300

RESISTORS

Mark	No.		Description	Part No.
R	881	(A,54,235)		RD1/4PU4R7J

CAPACITORS

Mark	No.		Description	Part No.
C	406	(A,96,232)	ELECT. CAPACITOR	CEAT471M35
C	881	(A,13,234)	FILM CAPACITOR	CFTLA104J2A
C	882	(A,23,239)	FILM CAPACITOR	CFTLA104J2A

H FRONT DISPLAY ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
IC	401	(B,121,181)	DISPLAY U-COM	PE5550A
Q	442	(B,238,190)	TRANSISTOR	RT1N241M
Q	484	(B,215,190)	TRANSISTOR	2SA1576A
D	403	(B,226,189)	DIODE	1SS355(A)
L	401	(A,242,159)	RADIAL INDUCTOR	LFCA2R2J

Mark	No.	Description	Part No.
V	401	(A,189,200) FL TUBE	XAV3036
S	447	(A,94,113) SWITCH	VSG1024
S	448	(A,76,113) SWITCH	VSG1024
S	449	(A,58,113) SWITCH	VSG1024
S	450	(A,58,92) SWITCH	VSG1024
S	451	(A,76,92) SWITCH	VSG1024
S	452	(A,94,92) SWITCH	VSG1024
S	454	(A,89,136) SWITCH	VSG1024
S	455	(A,65,136) SWITCH	VSG1024
S	456	(A,40,136) SWITCH	VSG1024
S	457	(A,16,136) SWITCH	VSG1024
S	458	(A,40,113) SWITCH	VSG1024
S	459	(A,114,136) SWITCH	VSG1024
S	460	(A,138,136) SWITCH	VSG1024
S	461	(A,163,136) SWITCH	VSG1024
S	462	(A,187,136) SWITCH	VSG1024
S	463	(A,212,136) SWITCH	VSG1024
S	464	(A,236,136) SWITCH	VSG1024
S	471	(A,40,92) SWITCH	VSG1024
X	401	(A,149,165) CERAMIC RESONATOR (5.00 MHz)	VSS1142
CN	401	(A,246,165) 17P CONNECTOR	52044-1745
	515	FL HOLDER(FE)	VNF1096
	404	(A,197,127) CABLE HOLDER(5P)	51063-0505
	470	(A,37,174) CABLE HOLDER(3P)	51063-0305
	471	(A,34,191) CABLE HOLDER(3P)	51063-0305
	402	(A,223,169) REMOTE RECEIVER UNIT	GP1UE274XKC1

RESISTORS

R	401	(B,144,169)	RS1/16S105J
R	402	(B,223,191)	RS1/16S104J
R	403	(B,220,191)	RS1/16S104J
R	405	(B,228,155)	RS1/16S102J
R	406	(B,226,155)	RS1/16S103J
R	407	(B,78,176)	RS1/16S473J
R	408	(B,80,176)	RS1/16S473J
R	409	(B,75,176)	RS1/16S473J
R	410	(B,73,176)	RS1/16S473J
R	411	(B,229,189)	RS1/16S473J
R	412	(B,235,187)	RS1/16S221J
R	413	(B,235,184)	RS1/16S221J
R	414	(B,235,182)	RS1/16S221J
R	415	(B,235,180)	RS1/16S221J
R	416	(B,235,178)	RS1/16S221J
R	417	(B,223,182)	RS1/16S101J
R	419	(B,205,148)	RS1/16S101J
R	420	(B,207,148)	RS1/16S101J
R	421	(B,209,148)	RS1/16S101J
R	422	(B,157,169)	RS1/16S104J
R	423	(B,131,167)	RS1/16S104J
R	424	(B,83,176)	RS1/16S104J
R	425	(B,206,185)	RS1/16S104J
R	430	(B,235,175)	RS1/16S0R0J
R	448	(B,87,114)	RS1/16S681J
R	449	(B,69,114)	RS1/16S821J
R	450	(B,58,102)	RS1/16S122J
R	451	(B,69,93)	RS1/16S162J
R	452	(B,88,97)	RS1/16S272J
R	453	(B,144,142)	RS1/16S472J
R	454	(A,101,135)	RD1/4PU681J
R	455	(A,75,136)	RD1/4PU821J
R	456	(A,50,136)	RD1/4PU122J
R	457	(A,26,136)	RD1/4PU162J
R	458	(B,34,114)	RS1/16S272J
R	459	(A,108,134)	RD1/4PU472J
R	460	(A,133,138)	RD1/4PU681J
R	461	(A,152,136)	RD1/4PU821J
R	462	(A,183,141)	RD1/4PU122J
R	463	(A,200,141)	RD1/4PU162J
R	464	(A,233,139)	RD1/4PU272J
R	465	(A,166,152)	RD1/4PU472J
R	471	(B,40,102)	RS1/16S512J
R	472	(A,90,142)	RD1/4PU472J

CAPACITORS

C	401	(B,247,155)	CKSRYB103K50
C	402	(B,247,153)	CKSRYB103K50
C	403	(A,232,168)	CEAT221M6R3
C	410	(B,60,193)	CKSRYB103K50
C	411	(B,62,193)	CKSRYB103K50
C	412	(A,49,178)	CEAT470M50
C	418	(B,141,179)	CKSRYB104K16
C	419	(B,103,183)	CKSRYB103K50
C	420	(A,44,184) ELECT. CAPACITOR	CEAT101M35
C	421	(B,160,169)	CKSRYB104K16
C	441	(B,225,176)	CKSRYB103K50
C	442	(A,239,146)	CEAL470M10
C	451	(B,125,166)	CKSRYB102K50
C	452	(B,103,164)	CKSRYB102K50
C	453	(B,122,166)	CKSRYB102K50
C	454	(B,100,164)	CKSRYB102K50
C	481	(B,140,191)	CCSRCH471J50
C	482	(B,126,201)	CCSRCH221J50
C	483	(B,126,199)	CCSRCH221J50
C	487	(B,84,160)	CKSRYB102K50
C	488	(B,81,160)	CKSRYB102K50
C	489	(B,74,163)	CKSRYB102K50
C	490	(A,71,163)	CKSRYB102K50

I ROTARY ENCODER ASSY

MISCELLANEOUS

S	502	(A,263,225) SWITCH	VSG1024
S	503	(A,282,225) SWITCH	VSG1024
S	504	(A,300,225) SWITCH	VSG1024
S	505	(A,300,212) SWITCH	VSG1024
S	506	(A,282,212) SWITCH	VSG1024
S	507	(A,263,212) SWITCH	VSG1024
S	513	(A,285,154) ROTARY ENCODER	XSX3005
	511	(A,257,183) CABLE HOLDER(5P)	51063-0505

RESISTORS

R	503	(B,275,224)	RS1/16S681J
R	504	(B,294,224)	RS1/16S821J
R	505	(B,301,219)	RS1/16S122J
R	506	(B,294,213)	RS1/16S162J
R	507	(B,275,213)	RS1/16S272J

J POWER KEY ASSY

MISCELLANEOUS

Mark	No.		Description	Part No.
S	501	(A,29,226)	SWITCH	VSG1024
	501	(A,40,210)	CABLE HOLDER(3P)	51063-0305

K JOG ASSY

MISCELLANEOUS

S	512	(A,96,226)	ROTARY ENCODER	XSX3009
	512	(A,66,236)	CABLE HOLDER(3P)	51063-0305

L FRONT MINI JACK ASSY

MISCELLANEOUS

J	30		JUMPER WIRE	D20PYY0323E
JA	971	(A,114,9)	JACK	DKN1124
KN	971	(A,145,33)	WRAPPING TERMINAL	VNF1084
	971	(A,157,14)	3P CABLE HOLDER	51048-0300

RESISTORS

R	971	(B,144,7)		RS1/16S331J
R	972	(B,144,17)		RS1/16S331J

CAPACITORS

C	971	(B,142,7)		CCSRCH101J50
C	972	(B,142,17)		CCSRCH101J50
C	973	(B,146,7)		CCSRCH101J50
C	974	(B,146,17)		CCSRCH101J50
C	975	(B,120,17)		CCSRCH471J50
C	976	(B,122,17)		CKSRYB103K50
C	977	(B,125,17)		CKSRYB104K25

M DIGITAL INPUT ASSY

MISCELLANEOUS

F	1901	(B,214,228)	INDUCTOR	CTF1295
JA	1900	(A,206,201)	OPT. LINK IN	GP1FAV51RKBF
KN	1902	(A,249,206)	SCREW PLATE	VNE1948
CN	1903	(A,236,221)	CONNECTOR	VKN1181

RESISTORS

R	1900	(B,211,215)		RS1/16S101J

CAPACITORS

C	1900	(B,205,215)		CKSRYB104K25
C	1903	(B,211,230)		CKSRYB103K50
C	1904	(A,208,228)		CEAL101M10
C	1905	(B,228,233)		CKSRYB104K25
C	1906	(B,230,233)		CKSRYB103K50
C	1907	(B,232,233)		CCSRCH101J50
C	1908	(B,236,233)		CKSRYB102K50

N REGULATOR ASSY

MISCELLANEOUS

⚠ IC	801	(A,147,89)	REGULATOR IC	KIA7812API
⚠ IC	802	(A,164,89)	REGULATOR IC	KIA7912PI
⚠ IC	808	(A,181,89)	REGULATOR IC	KIA7805API
D	810	(A,172,94)	DIODE	MTZJ6R2(B)(A)
CN	800	(A,194,113)	11PJUMPER CONNECTOR	52147-1110

RESISTORS

R	801	(A,136,95)	METAL OXIDE RESISTOR	RS3LMF331J

CAPACITORS

C	803	(B,147,97)		CKSRYB103K25
C	804	(B,166,97)		CKSRYB103K25
C	805	(A,147,105)		CEJQ101M16
C	806	(A,159,99)		CEAT101M16
C	818	(B,182,95)		CKSRYB103K25
C	819	(A,176,95)		CEAT221M10

O HEAD PHONE ASSY

MISCELLANEOUS

Q	1551	(B,208,48)	TRANSISTOR	2SC5938A
Q	1552	(B,203,39)	TRANSISTOR	2SC5938A
J	47		6P PARALLEL WIRE	XDX3065
JA	1551	(A,163,30)	HEADPHONE JACK	XKB3066
KN	1551	(A,193,23)	WRAPPING TERMINAL	VNF1084
	1551	(A,220,28)	6P CABLE HOLDER	51048-0600

RESISTORS

⚠ R	1551	(A,218,56)	METAL OXIDE RESISTOR	RS2LMF331J
⚠ R	1552	(A,207,42)	METAL OXIDE RESISTOR	RS2LMF331J
⚠ R	1553	(A,202,45)	METAL OXIDE RESISTOR	RS1LMF151J
⚠ R	1554	(A,194,45)	METAL OXIDE RESISTOR	RS1LMF151J
R	1555	(B,208,32)		RS1/16S472J
R	1556	(B,210,43)		RS1/16S472J
R	1557	(B,212,30)		RS1/16S102J

CAPACITORS

C	1551	(B,194,40)		CKSRYB223K50
C	1552	(B,205,49)		CKSRYB223K50
C	1553	(B,169,39)		CKSRYB103K50
C	1554	(B,169,37)		CCSRCH471J50
C	1555	(B,169,34)		CKSRYB104K16
C	1556	(B,167,24)		CKSRYB103K50
C	1557	(B,170,24)		CCSRCH471J50
C	1558	(B,172,24)		CKSRYB104K16
C	1561	(A,196,64)	ELECT. CAPACITOR	CEANP470M50
C	1562	(A,215,44)	ELECT. CAPACITOR	CEANP470M50

P VIDEO ASSY

MISCELLANEOUS

IC	301	(B,46,32)	VIDEO SW IC	NJM2595M
⚠ Q	301	(A,86,47)	TRANSISTOR	2SD1858X
⚠ Q	302	(A,66,52)	TRANSISTOR	2SB1237X
Q	303	(B,24,81)	TRANSISTOR	2SC5938A
D	301	(B,44,40)	DIODE	1SS355(A)
D	302	(B,41,44)	DIODE	1SS355(A)
D	303	(B,81,61)	DIODE	UDZS6R2(B)(A)
D	304	(B,73,59)	DIODE	UDZS6R2(B)(A)
D	308	(B,60,23)	DIODE	DAN202U(A)
JA	308	(A,14,51)	6P PIN JACK	XKB3068
CN	302	(A,64,84)	6P SOCKET	KP200TA6L
CN	304	(A,88,7)	13P FFC CONNECTOR	9604S-13C
CN	310	(A,46,7)	CONNECTOR	9604S-07C

RESISTORS

R	299	(B,47,52)		RS1/16S0R0J
R	301	(B,37,20)		RS1/16S750J
R	302	(B,31,60)		RS1/16S750J
R	303	(B,31,33)		RS1/16S750J
R	304	(B,31,66)		RS1/16S750J

Mark	No.		Description	Part No.
	R	305	(B,23,51)	RS1/16S750J
	R	306	(B,28,51)	RS1/16S750J
	R	307	(B,56,25)	RS1/16S102J
	R	308	(B,57,29)	RS1/16S102J
	R	310	(B,57,31)	RS1/16S102J
	R	311	(B,42,23)	RS1/16S102J
	R	312	(B,60,25)	RS1/16S102J
⚠	R	313	(A,85,57) METAL OXIDE RESISTOR	RS3LMF390J
	R	314	(B,84,61)	RS1/16S152J
	R	315	(B,64,59)	RS1/16S152J
⚠	R	316	(A,67,39) METAL OXIDE RESISTOR	RS3LMF390J
	R	317	(B,22,75)	RS1/16S102J
	R	318	(B,26,77)	RS1/16S122J
	R	319	(B,26,75)	RS1/16S472J
	R	391	(B,34,39)	RS1/16S0R0J
	R	392	(B,33,54)	RS1/16S0R0J
	R	393	(B,49,39)	RS1/16S0R0J

CAPACITORS

	C	304	(B,35,18)	CKSRYB221K50
	C	305	(B,23,66)	CKSRYB221K50
	C	306	(B,25,51)	CKSRYB221K50
	C	307	(A,35,36)	CEAT470M25
	C	308	(A,52,54)	CEAT470M25
	C	309	(A,31,46)	CEAT470M25
	C	310	(A,54,43)	CEAT101M16
	C	311	(B,82,48)	CKSRYB473K25
	C	313	(B,75,42)	CKSRYB473K25
	C	333	(B,22,77)	CKSRYB331K50
	C	338	(A,60,38)	CEAT101M16
	C	339	(B,37,24)	CKSRYB104K25
	C	340	(B,56,37)	CKSRYB104K25
	C	1360	(B,18,51)	CKSRYB103K50

Q PRIMARY ASSY

MISCELLANEOUS

⚠	IC	51	(B,236,11) IC	NJM78L05UA
	Q	51	(B,267,14) DIGITAL TR(SC-70)	RT1N431M
	D	51	(B,298,20) BRIDGE DIODE	DF06SA(A)
	D	55	(A,304,21) DIODE	1SR139-400(A)
	D	56	(A,271,21) DIODE	1SS133(A)
	D	57	(A,266,25) DIODE	1SS133(A)
	D	58	(A,314,13) DIODE	MTZJ5R1(B)(A)
	H	51	(A,231,34) FUSE CLIP	AKR7001
	H	52	(A,250,34) FUSE CLIP	AKR7001
	J	52	JUMPER WIRE	D20PYY0410E
	KN	51	(A,318,25) WRAPPING TERMINAL	VNF1084
	KN	3001	(A,223,117) SCREW PLATE	VNE1948
⚠	RY	51	(A,271,57) JOE LOWPOWER RELAY	ASR7013
⚠	T	51	(A,288,56) STANDBY TRANSFORMER	ATT7043
⚠	CN	51	(A,236,47) AC CODE SOCKET	RKP1751
		55	(A,317,9) 4P CABLE HOLDER	51048-0400

RESISTORS

⚠	R	51	(A,318,37) RESISTOR(2.2M, 1/2W)	RCN1080
	R	52	(A,275,11)	RD1/2PM270J
	R	53	(A,307,12)	RD1/4PU332J
	R	54	(A,319,16)	RD1/4PU103J

Mark	No.		Description	Part No.

CAPACITORS

⚠	C	51	(A,261,64) FILM CAPACITOR	ACE7013
⚠	C	52	(A,265,57) SAFETY CAPACITOR	XCG3010
	C	53	(A,291,21) ELECT. CAPACITOR	CEAT102M16
	C	54	(A,300,11)	CEAT470M25
	C	55	(A,307,21)	CKPUYF103Z25
	C	56	(A,311,21)	CKPUYF103Z25
	C	57	(A,314,21)	CKPUYF103Z25

S TRANS1 ASSY

TRANS1 ASSY has no service parts.

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service parts.